# Safety at Height

Working at height is defined as any working place where, if protection is not taken, a person could fall causing serious injuries or death.



# Honeywell Safety Products

# Safety at Height

**Miller® provides safety at height products:** personal fall protection equipment, engineered fall arrest systems, collective fall prevention/barrier, solutions, professional services including, training, audits, consulting, product, inspection and repairs.

For over 65 years, products labeled with the Miller brand have protected those working at height in a wide range of industries including: construction, oil and gas, telecommunications, wind energy, transportation, mining, general industry, utilities and more.

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# Miller... Synonymous with Safety, Quality, Reliability and Innovation.

### **SAFETY AT HEIGHT**

European legislation states that fall protection measures must be put in place by the employer of any person working at a height where a fall hazard exists. The regulation also requires that people involved in work at height are competent to do so or if in training, are supervised by a competent person. If it is not feasible to eliminate the hazard using a collective system then personal protective equipment (PPE) must be selected and used. It could be for restraint, work positioning, rescue or fall arrest purposes. This system consists of a full body harness, an intermediate attachment and an anchorage connector. The systems can only be used if a suitable anchorage point is located close to the work area.

Miller products are designed and tested by full-time, qualified engineers and technicians at a state-of-the-art, in-house testing facility, which not only verifies that specific standards are achieved but often tests beyond the standards to assure the ultimate in safety performance. In addition, core Miller products are third-party tested by independent sources to further certify compliance. Honeywell Safety Products has successfully earned and continues to retain ISO 9001 certification at its manufacturing facilities. Miller has undergone the most stringent requirements for design and development, production and service, proof of our unwavering and ongoing commitment to consistent quality products and services.

Miller products are developed in collaboration with workers to fit to their need to provide innovative solutions.

With our goal of being your comprehensive problem-solving provider, we are committed to meet your fall protection needs with innovative safety solutions mixing products and services such as training, hazards identification and tailor made products.

With sales offices and training centres throughout the world, Miller is supported at a local level by our highly trained field sales force and dedicated technical support and customer service resources assuring reliable solutions to the most complex and technical requests.





# Fall Protection Fundamentals

### STANDARDS\*

EN12841/C Rope access systems: back-up devices

EN 341 Descenders

EN 353-1 Guided Type Fall Arresters Rigid Anchorage Line and Rails

EN 353-2 Guided Type Fall Arresters Flexible Anchorage Line

EN 354 Lanyards

Shock Absorbers EN 355

EN 358 Work Positioning Systems EN 360 Retractable Type Fall Arresters

EN 361 Full Body Harness EN 62 Connectors

EN 795(b) Anchorage Devices - Class B

EN 813 Sit Harness EN 363 Fall Arrest Systems

| HARNESS TYPE                      | European<br>Standart     | Work Restraint | Work<br>Positioning | Fall Arrest | Work in<br>Suspension | Rescue |
|-----------------------------------|--------------------------|----------------|---------------------|-------------|-----------------------|--------|
| Work Positioning Belt             | EN 358                   | ok             | ok                  | -           | -                     | -      |
| Full Body Harness                 | EN 361                   | ok             | -                   | ok          | -                     | -      |
| Full Body Harness                 | EN 361/ EN 358           | ok             | ok                  | ok          | -                     | -      |
| MultifunctionFull<br>Body Harness | EN 358/ EN 813<br>EN 361 | ok             | ok                  | ok          | ok                    | ok     |

# **WORKING AT HEIGHT CATEGORIES**

Your working at height environment reflects the equipment that must be used. The categories summarised below have been defined by European Standards and are used as the base for work at height operations.



### (A) FALL ARREST

Equipment used to stop falling worker in the event of a fall from height.

### Typical Fall Arrest System consists of:

- · Anchor devices.
- Full body harness.
- · Connecting devices.



### RESCUE

Rescue & Evacuation of an injured high access worker is mandatory consideration for work at height operations.

### Typical Rescue System consists of:

• Rescue & evacuation device.



### **WORK POSITIONING\***

Equipment holding an operator in their place of work.

### Typical Work Positioning System consists of:

- Anchor devices.
- Full body harness with a positioning belt.
- Connecting devices (work-positioning lanyard).

### WORK IN SUSPENSION\*

Designed to lower and support a worker, allowing a hands free work environment.

### Typical Suspension System consists of:

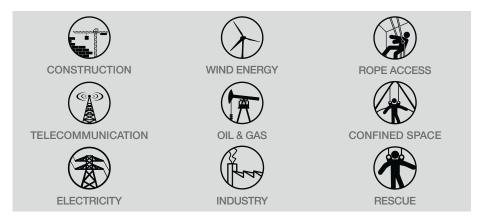
- · Anchor devices.
- Full body harness.
- 2 ropes: equipped with a descender, equipped with a rope grab.

### **WORK RESTRAINT**

Equipment used to prevent the worker from approaching a position from which they can fall.

### Typical Work Restraint System consists of:

- Anchor devices.
- Work restraint belt or full body harness.
- Connecting devices (restraint lanyard).



<sup>\*</sup> The positioning and suspension systems are not designed for Fall Arrest. A back-up Fall Arrest system must be used.





# Introduction to Safety at Height basics

# The ABC's

A simple way of remembering the core components of a fall arrest system is the "ABC" of Fall Arrest. Quite simply, without one part, the system does not work.



### (A) ANCHOR DEVICES

**Definition:** Used to join the connecting device (work restraint, fall arrester) to the anchorage, commonly referred to as the "tie-off point" (I-beam, scaffolding or other structural point).

### Anchor devices may be one of the 2 types:

- Permanent anchor devices (e.g. horizontal cable lifeline, horizontal rail systems...).
- Temporary anchor devices (e.g. steel strops, scaffold hooks, webbing anchorage slings, beam grips and dead-weight anchor...).



### (B) FULL BODY HARNESS

**Definition:** Used to hold a worker during & after a fall.

- Full body harness must be worn for Fall Arrest situations.
- Work restraint belts cannot be used for Fall Arrest.



### (C) CONNECTING DEVICES

Definition: Used as intermediate attachment to connect the worker's harness to the anchor device (e.g. shock absorbing lanyard, self retracting lifeline, fall limiter, rope grab etc.).

Connecting devices may be one of the 2 types:

- Fall Restraint: a fall restraint system prevents workers from reaching a hazard.
- Fall Arrest: a fall arrest system allows workers to reach a hazard and then protects them if they should fall.

# Life cycle of fall protection equipment

Please consult for detailed information the dedicated product user manual.

### A. For our products made up mainly of textiles (harnesses, lanyards, SRL with webbing3)

The maximum life cycle has been set at ten years from the date of production. This, without environmental factors¹ and particular cases of use<sup>2</sup> of the fall protection equipment. An annual inspection done by a competent person (trained for PPE inspections) is mandatory.

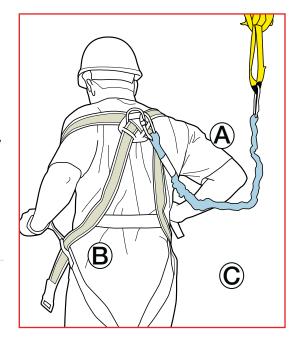
### B. For our products made up mainly of metal (Cable SRL, karabiners)

We do not indicate a life cycle; the latter can be unlimited, as the product undergoes regular maintenance (at least once a year). In case of doubt or damage, the device has to be sent for expert inspection/repair to a local Miller Service Point or the Factory. For products not subject to maintenance (non workable), the life cycle is a maximum of ten years<sup>1, 2</sup>.

### C. HELMETS

The maximum life cycle has been set at five years from the manufacturing date

- <sup>1</sup> Environmental factors: contact with chemicals, improper storage, exposure to strong sources of heat > 50°C, ultraviolet rays, abrasion, etc.
- <sup>2</sup> Particular cases of use: deterioration of the product, arresting falls, mechanical deformation, when accidental dropping, early wear, intensity of use and poor conditions of use. In all cases, our products must be verified annually.
- <sup>3</sup> Except for Miller Falcon 6m webbing: Replacement of the webbing kit every 5 years from manufacturing date. Annual expert inspection by a Miller Service Point or the Factory is required.







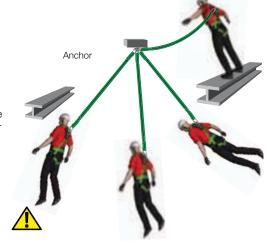
# Understand your fall factors to reduce the risks!

# Getting to grips with the work hazards!

There are three fall factors in fall arrest that relate to the position of the anchorage point. They are used to determine the potential fall distance of a worker and so ensure that there is no risk of contact with the lower level in the event of a fall. When possible, the worker should always use an anchorage point at shoulder level or above (Factor 1 or 0). A higher anchorage point will reduce the fall distance and therefore significantly reduce the risk of injury on the body due to the impact forces of a fall.

### THE PENDULUM EFFECT

When the lifeline is not anchored vertically over the work place, the worker will pendulum in the event of a fall and may be injured by hitting the ground or an obstacle to the side. If it is not possible to use an anchorage point close to the work station, two anchorage points either side of the worker can be used to prevent any swing.



### **FALL CLEARANCE CALCULATIONS**

This is the distance a person will fall when connected to a fall arrest attachment point. It is related to the Fall Factors (see Fall factor). Many situations can develop and it is ultimately the responsibility of the worker to ensure that there is a suitable fall clearance available. In order to calculate this, the worker must know the distances specified below, and it is also strongly recommended they attend a Miller safety at height training course.

The calculation below gives the minimum vertical clearance required between the anchorage point of the lanyard and the lower level.

Length of lanyard

+ Fully activated energy absorber

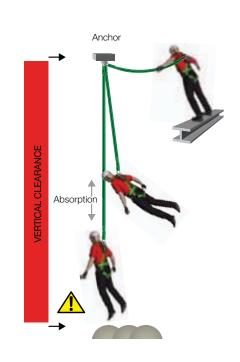
+ Body height from feet to harness attachment

+ Additional safety clearance

### Examples:

Calculations using the following length lanyards are as follows:

- 2m lanyard: 2m (lanyard length) + 1.75m (energy absorber) + 2m (body height) + 1m safety = 6.75m
- 1.5m lanyard: 1.5m (lanyard length) + 1.5m (energy absorber) + 2m (body height) + 1m safety = 6m

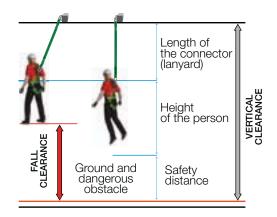


# Understand your fall factors to reduce the risks!

# **FALL FACTOR 0**

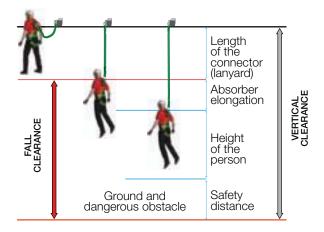
Anchorage is overhead and the lanyard is taut between the anchorage point and the worker.

The fall clearance is reduced as shown.



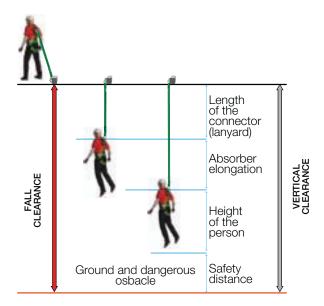
# **FALL FACTOR 1**

Anchor point is level or above the harness attachment point allowing a fall equivalent to the length of the lanyard before the energy absorber deploys to arrest the fall.



# **FALL FACTOR 2**

Anchor point is at or below the feet of the worker allowing a fall equivalent to twice the length of the lanyard before the energy absorber deploys to arrest the fall.



### IF IN DOUBT: FALL LIMITERS REDUCE FALL CLEARANCE < 3M

A fall limiter or self-retracting lifeline will stop a fall in centimetres and is therefore the ideal solution for low-level work where a shock-absorbing lanyard is unable to stop the worker from hitting an obstacle below.





# Harnesses

Miller harness features

### **ADJUSTMENT BUCKLES**

### **MATING BUCKLE**

To connect the mating buckle, push the centre bar buckle completely through the square link and allow it to fall into place. Pull web end to tighten.



### QUICK-CONNECT BUCKLE

For belt, waist and leg straps interlock for quick easy donning and feature a dual-tab release mechanism to prevent accidental opening.



### CAM BUCKLE

The locking tabs of the cam buckle trap the webbing to prevent unintentional slippage. Lift the locking tab for easy, one-hand adjustment/release. Promotes proper snug fit, will not slip or misadjust.



### **WEBBING**

### **DUALTECH™ WEBBING**

Donning made easy with two-sided, contrasting colour webbing and textures.

- Webbing engineered with shape retention memory for a more comfortable fit.
- Unique circular tack provides greater strength, and contrasting colours make inspection easier.



### **DURAFLEX® WEBBING**

 Patented elastomer webbing specially formulated to stretch with the user's movements so there is no bunching or binding.





# **ANCHORAGE POINTS**

How to determine an anchorage point?

- 1 point = dorsal anchorage
- 2 point = dorsal and sternal anchorage
- 3 point = dorsal, sternal and ventral anchorage
- + workpositioning = 2 side anchorage points

### SIDE D-RINGS ON BELT

A work-positioning lanyard is attached to the side D-rings to enable the operator to work with his hands free. These are not suitable for fall arrest.



# FRONT D-RINGS AND FRONT ANCHORAGE LOOPS

Used for a comfortable, fall arrest anchorage point, usually in conjunction with a guided type fall arrester. Used for a variety of confined space, rescue, climbing.





### **BELT, LEG & SEAT STRAP**

A padded belt is recommended for work positioning. The greater support increases worker productivity. Padded leg straps for suspension work: it distributes the load across the buttocks and back. Seat strap for worker comfort during prolonged periods of work in suspension.





### Fall arrest harnesses

Fall Protection is about protecting people who are working at height. Falls from height are the second most common cause of accidents in the work place and cost significant amounts every year to employers. The purpose of a fall arrest system is to safely stop a fall from height and to hold the worker until he can be recovered. A full body harness that conforms to EN 361 is the form of body wear used in fall arrest applications.

### **DURAFLEX® MA08**



2 point - Front and rear anchorage

### **FEATURES & BENEFITS**

### **Benefits: Elasticated webbing**

- Greater comfort.
- Increase durability.

| Ref.      | Size |
|-----------|------|
| 10 028 54 | S    |
| 10 028 53 | M/L  |
| 10 049 59 | XXL  |

Conforms to EN 361

### Features: Stretch webbing

- DuraFlex® elastomer webbing.
- · Webbing repels water, oil, grease and dirt.
- Manual chest and leg buckles.
- 2 sternal D-rings.

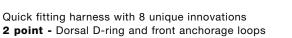


# MILLER REVOLUTION™ COMFORT R2









### **FEATURES & BENEFITS**

### Benefits: Conforms to users movements

- Rotating PivotLink connections at waist level.
- Full freedom of movement.
- Integrated accessories system.
- Custom identification labels.

| Ref.      | Description Size          |       |
|-----------|---------------------------|-------|
| 10 142 36 | DuraFlex® stretch webbing | S/M   |
| 10 142 37 | DuraFlex® stretch webbing | L/XL  |
| 10 142 38 | DuraFlex® stretch webbing | XXL** |

Conforms to EN 361

### Features: Turning point in design

- Elasticated DuraFlex® webbing\*.
- ErgoArmor™ padded back shield.
- · Quick fixing Cam buckles for easy fit.
- · Quick connect buckles at chest & leg.
- Web finials to store spare webbing.
- Self-contained label pack.

| Ref.      | Description S        |  |
|-----------|----------------------|--|
| 10 142 39 | DualTech webbing S   |  |
| 10 142 40 | DualTech webbing L/  |  |
| 10 142 41 | DualTech webbing XXI |  |



<sup>\*</sup>Available in Dualtech webbing

<sup>\*\*</sup>Made on demand





### Fall arrest harnesses

# **DURAFLEX® MA04**







2 point - Front and rear anchorage.

### **FEATURES & BENEFITS**

### **Benefits: Elasticated webbing**

- Greater comfort.
- Increase durability.

| Ref.      | Description               | Size |
|-----------|---------------------------|------|
| 10 076 11 | Quick-connect buckles M/L |      |
| 10 076 12 | Quick-connect buckles     | XL   |

Conforms to EN 361

### Features: Stretch webbing

- DuraFlex® elastomer webbing.
- · Webbing repels water, oil, grease and dirt.
- Front anchorage soft webbing loops.

| Ref.      | Description                  | Size |
|-----------|------------------------------|------|
| 10 028 50 | Manual chest and leg buckles | S    |
| 10 028 49 | Manual chest and leg buckles | M/L  |













2 point - Front and rear anchorage (front webbing loops).

### **FEATURES & BENEFITS**

### Benefits: Lightweight

- Fully adjustable design so one size fits all.
- Sliding back D-ring for a comfortable fit.

| Ref.      | Size   |
|-----------|--------|
| 10 118 91 | Unique |

Conforms to EN 361

### Features: Ensuring safety and compliance in the workplace

- Durable polyester webbing.
- Sub-pelvic strap keeps the wearer upright.
- Manual chest and leg buckles.
- 45 mm chest strap with metal buckle.



# TITAN™







Cost effective choice for fall protection. 1 point - Rear anchorage.

### **FEATURES & BENEFITS**

### **Benefits: Lightweight**

- Fully adjustable design so one size fits all.
- Sliding back D-ring for a comfortable fit.

| Ref.      | Size   |
|-----------|--------|
| 10 118 90 | Unique |

Conforms to EN 361

### Features: Ensuring safety and compliance in the workplace

- Durable polyester webbing.
- Sub-pelvic strap keeps the wearer upright.
- Manual chest and leg buckles.
- 45 mm chest strap with metal buckle.



# **DURAFLEX® MA02**



1 point - Rear anchorage.

### **FEATURES & BENEFITS**

### **Benefits: Elasticated webbing**

- Greater comfort.
- Increase durability.

| Ref.      | Description |  |
|-----------|-------------|--|
| 10 028 48 | S           |  |
| 10 028 47 | M/L         |  |

### Features: Stretch webbing

- DuraFlex® elastomer webbing.
- · Webbing repels water, oil, grease and dirt.
- Manual chest and leg buckles.





### Fall arrest harnesses











1 point - Comfortable vest style heavy duty harness.

### **FEATURES & BENEFITS**

### Benefit:

• Shoulder strap for easy dorsal fittings.



Conforms to EN 361

### Features:

- Vest style harness.
- Durable chemical resistant polyester webbing.
- Breathable contoured backpack.
- Quick release connectors.
- Extended D-ring.



### LIGHT HARNESS NYLON EXTEND









3 point - A vertical safety wire/rail system, confined space

### **FEATURES & BENEFITS**

### Benefits:

- · A lightweight harness.
- Sliding dorsal D-ring for a confortable fit.

| Ref.         | Size |
|--------------|------|
| FPFV701/3ED* | L    |

Conforms to EN 361 \*ED = extended D-ring

### Features:

- Sternal loops and pass through leg connectors.
- The flat bar buckles are easy to use and fail



# **LIGHT HARNESS NYLON**









3 point - Fall arest, descent, rescue, vertical wire/rail system, confined space

### **FEATURES & BENEFITS**

### Benefits:

- A lightweight harness.
- Sliding dorsal D-ring for a confortable fit.
- The shoulder straps and the height of the chest strap are adjustable.

| Ref.       | Size |
|------------|------|
| FPFV702/3D | L    |

Conforms to EN 361

### Features:

- Harness with 3 anchorage points: back D-ring and at the front 2 sternal loops.
- The flat bar buckles are easy to use and fail







# Special fall arrest harnesses

For specific requirements: welding, ATEX, wind energy...











Ideal solution for welding, firefighting. 1 point - Rear anchorage D-ring.

### **FEATURES & BENEFITS**

### Benefits: Strength and high temperature resistance

- Nomex®\* webbing protects against weld spatter and sparks.
- Contrasting colours which facilitate inspection.
- Maximum temperature: 177°C.

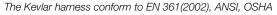
### Features: Exceptional heat and fire resistance

- Blue Nomex® flame-retardant webbing.
- Yellow Kevlar® inner core.
- Sub-pelvic strap.
- · Adjustable leg straps.
- Manual chest and leg buckles.
- · Clips on shoulder straps for lanyard when not in use.

| Ref.      | Description            | Size |
|-----------|------------------------|------|
| 10 123 33 | 751K Single adjustment | S/M  |
| 10 123 34 | 751K Single adjustment | L/XL |
| 10 123 35 | 751K Single adjustment | XXL  |

| Ref.      | Description              | Size |
|-----------|--------------------------|------|
| 10 123 36 | 650K Adjustable shoulder | S/M  |
| 10 123 37 | 650K Adjustable shoulder | L/XL |
| 10 123 38 | 650K Adjustable shoulder | XXL  |





\*KEVLAR and Nomex are registered trademarks of E. I. Du Pont de Nemours and company.

# **ATEX ANTISTATIC**







The solution for work at height in explosive atmospheres.

2 point - Dorsal anchorage (webbing extension and loop) and sternal (with webbing loops).

### **FEATURES & BENEFITS**

### Benefits:

- Prevents the risks of ingnition caused by electrostatic discharge.
- Dorsal extension strap facilitates connection.
- Detachable dorsal pad facilitates harness donning.

| Ref.      | Size |
|-----------|------|
| 10 150 74 | S/M  |
| 10 150 75 | L/XL |
| 10 305 10 | XXL  |

### Features: Increase security

- Anti-static material.
- Sub-pelvic strap.
- Protective back pad.
- Adjustable shoulder straps.
- Adjustable leg straps with quick-connect



Certified and complies with EN 361 (2002) and EN ATEX 13463-1 (2001) Additional ATEX solutions available on demand

# Special fall arrest harnesses

# **DURAFLEX® STRETCH VEST HARNESS**









Engineered for optimal performance in all conditions.

2 point + workpositioning - Front and rear anchorage (front webbing loops).

### **FEATURES & BENEFITS**

### **Benefits: High visibility**

- Lightweight, durable polyester vest jacket.
- Multiple adjustments for perfect fit.
- Excellent chemical and abrasion resistance.

# Features: Highly comfortable and practical

- Front zipper.
- Multiple pockets.
- Shoulder padding.
- Lateral loops for tool bags.
- Press studs between lining and jacket.

### Harnesses with quick connect buckles:

| Ref.      | Description                               | Size |
|-----------|---|------|
| 10 068 82 | Black vest harness DuraFlex®              | M/L  |
| 10 075 50 | Black vest harness DuraFlex®              | XL   |
| 10 100 40 | Hi-Vis vest harness<br>DuraFlex® - Yellow | M/L  |
| 10 103 26 | Hi-Vis vest harness<br>DuraFlex® - Yellow | XL   |
| 10 146 30 | Hi-Vis vest harness<br>DuraFlex® - Orange | M/L  |
| 10 146 31 | Hi-Vis vest harness<br>DuraFlex® - Orange | XL   |

### Harnesses with manual Buckles:

| Ref.      | Description                   | Size |
|-----------|-------------------------------|------|
| 10 134 54 | Yellow vest harness DuraFlex® | M/L  |
| 10 134 55 | Yellow vest harness DuraFlex® | XL   |



Conforms to EN 361 and EN 471 Class 2 (for HI-VIS option).





# Special fall arrest harnesses

# MILLER REVOLUTION™ R7 OFFS







Designed for highly corrosive offshore and coastal environments including wind energy and petrochemical industries.

2 point + workpositioning - Front and rear anchorage (front webbing loops) and workpositioning side D-rings.

### **FEATURES & BENEFITS**

### Benefits: High corrosion resistance and reinforced harness

- · Protection with PVC coating on back and sides D-rings.
- Fall indicator at dorsal D pad.
- Stand up D function for easy connection
- Stitched A security marking for anchorage at back and chest points.
- Foldable side D-ring.
- Additional elastic keepers on shoulder strap.
- Longer stitching on the belt pad for greater
- · Custom identification labels on back housing.
- Back Pad with V shape.
- · Self contained label pack.

| Ref.           | Size |
|----------------|------|
| 10 148 07/OFFS | S/M  |
| 10 148 08/OFFS | L/XL |
| 10 148 09/OFFS | XXL  |

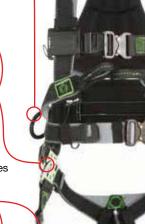
### Features: High resistant components

- 316 L Stainless steel PivotLink™.
- DualTech™ polyamide/polyester webbing.
- ErgoArmor™ padded back shield.
- · Positioning belt.
- · Quick-connect buckles on legs straps, belt & chest strap in anodized aluminium.
- Shoulder aluminium CAM buckle adjustment for easy fit.
- Back tool rings.











# MILLER REVOLUTION™ R7 WIND

Multi standards compliance: CE, ANSI/OSHA, CSA, AS/NZS









Ideal for work at height on onshore wind energy applications. 2 point + workpositioning - Front and rear anchorage (front webbing loops) and workpositioning side D-rings.

### **FEATURES & BENEFITS**

### Benefits: High safety and comfort level

- Fall indicator at dorsal D pad.
- Stand up D function for easy connection.
- Stitched A security marking for anchorage at back and chest points.
- · Longer stitching on the belt pad for greater strength.
- Back pad with 'V' shape.
- Additional elastic keepers on shoulder strap.
- Custom identification labels on back housing.
- Self contained label pack.

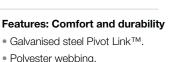
| Ref.           | Size |
|----------------|------|
| 10 148 07/WIND | S/M  |
| 10 148 08/WIND | L/XL |
| 10 148 09/WIND | XXL  |

Multi standards compliance: CE, ANSI/OSHA, CSA, AS/NZS









- · Shoulder strap adjustment with mating buckle.
- · Chest strap mating buckle.
- Automatic steel quick connect buckle on legs and waist strap.
- · Positioning belt.
- ErgoArmor™ padded back shield
- Back tool rings.





A work positioning systems is designed to hold a worker in a secure, hands-free working position and is used in conjunction with a fall protection system. A fall can occur while working and this is why a work positioning system is a combination of the fall arrest harnesses that complies with EN 361 together with a work positioning system to EN 358.

### **ELASTOTRANS**











Suitable for work on pylons.

2 point + workpositioning - Rear, 2 front anchorages and workpositioning side D-rings.

# **FEATURES & BENEFITS**

### Benefits: Reduces fatigue

- Full freedom of movement for access.
- Hands-free position.
- Excellent support for suspension.

| Ref.      | Size |
|-----------|------|
| 10 030 29 | S    |
| 10 030 28 | M/L  |
| 10 030 30 | XL   |

Conforms to EN 361 and EN 358

### Features: Comfort and freedom of movement

- Work positioning belt and leg straps.
- Stretchable shoulder straps.
- Ergonomically designed back-padding and padded leg straps.
- Quick-connect buckles for easy fit.
- Rear anchorage extension webbing.



### **RM**













The perfect compromise between freedom of movement and excellent support for suspension. 3 point + workpositioning - Rear and sternal anchorage, ventral anchorage loops and workpositioning side anchorage.

### **FEATURES & BENEFITS**

### **Benefits: Stretch webbing**

- Greater freedom of movement.
- Comfort with reduced fatigue.
- Excellent support for work in suspension.

| Ref.      | Size |
|-----------|------|
| 10 034 38 | S    |
| 10 034 39 | M/L  |

Conforms to EN 361, EN 358 and EN 813

### Features: Easy fitting

- · Work positioning belt and sit harness function.
- Elasticated webbing on shoulder straps.
- · Lightweight and easy-to-fit.
- · Quick connect buckles at legs and waist.
- Padded belt and leg straps.







# **TOWER**









Heavy-duty harness, designed for excellent comfort and support. 3 point + workpositioning - Rear and front anchorage (karabiner for fall arrest and ventral D-ring for access work) and workpositioning side D-rings.

### **FEATURES & BENEFITS**

### Benefits:

- Belt and sit harness function.
- Belt prevents back injuries and promotes productivity.

| Ref.      | Size |
|-----------|------|
| 10 117 70 | S    |
| 10 062 55 | М    |

Conforms to EN 361, EN 358 and EN 813

### Features:

- Ventral anchorage point for work in suspension.
- High-quality, resistant webbing for increased durability.
- Work-positioning belt.
- Padded leg straps for enhanced comfort during suspension work.
- Back and shoulder pads.



# **DURAFLEX® MA58**









2 points + workpositioning - Rear and front anchorages with workpositioning belt.

### **FEATURES & BENEFITS**

### **Benefits: Elasticated webbing**

- · Greater comfort.
- Increase durability.

| Ref.      | Size |
|-----------|------|
| 10 028 58 | S    |
| 10 028 57 | M/L  |
| 10 049 54 | XXL  |

Conforms to EN 361 and EN 358

### Features: Stretch webbing

- DuraFlex® elastomer webbing.
- Webbing repels water, oil, grease and dirt.
- Work positioning belt with 2 side D-rings.
- Manual buckles at chest and legs.
- 2 Sternal D-rings.



# MILLER REVOLUTION™ PREMIUM R3











Waist level: for bending or crouching

# Ergonomic fit when bending or crouching.

2 point + workpositioning - Dorsal D-ring front anchorage loops and workpositioning belt.

### **FEATURES & BENEFITS**

### **Benefits: Quick fitting harness**

- Rotating PivotLink™ connections at waist level.
- · Easy fit when bending or crouching.
- Full freedom of movement.
- · Custom identification labels.
- · Fixed work positioning belt.

| Ref.      | Description      | Size  |
|-----------|------------------|-------|
| 10 142 42 | DualTech webbing | S/M   |
| 10 142 43 | DualTech webbing | L/XL  |
| 10 142 44 | DualTech webbing | XXL** |

Conforms to EN 361 and EN 358

### Features: Easy adjustment

- Dualtech™ webbing with shape retention
- ErgoArmor™ padded back shield.
- Shoulder CAM buckles for easy fit.
- Quick Connect Buckles at legs, belt & chest.
- · Web finials to store spare webbing.
- Self-contained label pack.
- Integrated accessories system.





# MILLER REVOLUTION™ PREMIUM R5

2 point + workpositioning - Dorsal D-ring front anchorage loops and workpositioning belt.

Smoother movement when ascending or descending.











# **FEATURES & BENEFITS**

### Benefits: Stretch to users movements

- Rotating PivotLink™ connections at hip level.
- Easy movement for ascent or descent.
- Full freedom of movement.
- · Custom identification labels.
- Rotating work positioning belt for hands free.

### Features: Reduce user fatigue

- Elasticated DuraFlex® webbing\* stretches to users movements.
- ErgoArmor<sup>™</sup> padded back shield.
- Shoulder CAM buckles for easy fit.
- · Quick Connect Buckles at legs, belt & chest.
- · Web finials to store spare webbing.
- · Self-contained label pack.
- Integrated accessories system.

| Ref.      | Description      | Size  |
|-----------|------------------|-------|
| 10 142 54 | DualTech webbing | S/M   |
| 10 142 55 | DualTech webbing | L/XL  |
| 10 142 56 | DualTech webbing | XXL** |



Conforms to EN 361 and EN 358

\*\*Made on demand



<sup>\*</sup>Available in dualtech webbing





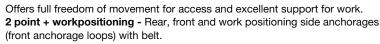
# **ELASTOKUIK COMFORT**











### **FEATURES & BENEFITS**

# Benefits: Padding to support hands free

- Excellent freedom of movement and extended reach.
- Easy to fit.
- Moving shoulder straps increases comfort and flexibility.

| Ref.      | Size |
|-----------|------|
| 10 030 23 | S    |
| 10 030 22 | M/L  |
| 10 030 24 | XL   |

Conforms to EN 361 and EN 358

### **Features: Comfort**

- Rotating work-positioning belt.
- Stretchable shoulder straps move with the worker.
- · Quick-connect buckles.
- · Comfortable back-padding in cordura.



# **ELASTOLIGHT**











Perfect solution for work positioning and access.

2 point + workpositioning - Rear, front and work positioning side anchorages (front anchorage loops) with belt.

### **FEATURES & BENEFITS**

### Benefits:

- Provide greater freedom of movement and comfort for enhanced productivity.
- · Comfortable back-padding for workpositioning.
- Easy shoulder adjustments.

| Ref.      | Size |
|-----------|------|
| 10 060 77 | S    |
| 10 060 76 | M/L  |

Conforms to EN 361 and EN 358

### Features:

- Stretchable shoulder straps.
- Manual buckles at chest, belt and legs.
- · Padded belt.



### **KUIK TST**









Enhance operator's comfort and freedom of movement at work.

2 point + workpositioning - Rear and front anchorages (front anchorage loops) and work positioning side D-rings with belt and semi-rigid seat strap.

### **FEATURES & BENEFITS**

### Benefits: Optimum freedom of movement

- Work positioning belt allows 180° rotation.
- Full freedom of movement with maximum reach.
- Shoulder straps stretch with the user.
- Seat strap ensures optimum comfort.
- · Reduces fatigue.

| Ref.      | Size |
|-----------|------|
| 10 030 18 | S    |
| 10 030 17 | M/L  |

Conforms to EN 361 and EN 358

### Features: Increases user confidence

- 180° rotating work-positioning belt.
- Rigid seat strap.
- Belt and seat webbing straps move simultaneously.
- Stretchable shoulder straps.
- · Quick-connect buckles for easy fit.



# **DURAFLEX® MA60**









The choice for greater mobility and extreme comfort.

3 point + workpositioning - Rear and front anchorage with dorsal, sternal, ventral and workpositioning side anchorage with belt.

### **FEATURES & BENEFITS**

### **Benefits: Elasticated webbing**

- Greater comfort.
- Increase durability.

| Ref.      | Size |
|-----------|------|
| 10 051 37 | S    |
| 10 051 36 | M/L  |
| 10 124 63 | S    |
| 10 124 62 | M/L  |
| 10 131 16 | XL   |

Conforms to EN 361 and EN 358

### Features: Stretch webbing

- DuraFlex® elastomer webbing.
- Front anchorage webbing loops.
- Webbing repels water, oil, grease and dirt.
- Work positioning belt with 2 side D-rings.

### Padded legstraps

| Ref.      | Size |
|-----------|------|
| 10 051 37 | S    |
| 10 051 36 | M/L  |
| 10 124 63 | S    |
| 10 124 62 | M/L  |
| 10 131 16 | XL   |

















2 point + workpositioning - Rear anchorage with work positioning belt.

### **FEATURES & BENEFITS**

### **Benefits: Lightweight**

- Fully adjustable design so one size fits all.
- Sliding back D-ring for a comfortable fit.

| Ref.      | Size   |
|-----------|--------|
| 10 118 94 | Unique |

Conforms to EN 361 and EN 358

### Features: Ensures safety and compliance in the workplace

- Durable polyester webbing.
- Front webbing loops.
- Sub-pelvic strap keeps the wearer upright.
- 45mm chest strap with metal buckle.
- Manual buckles.



**TITAN**<sup>TM</sup>









Cost effective for work positioning.

1 point + workpositioning - Front and rear anchorages with work positioning belt.

### **FEATURES & BENEFITS**

### **Benefits: Lightweight**

- Fully adjustable design so one size fits all.
- Sliding back D-ring for a comfortable fit.

### Features: Ensures safety and compliance in the workplace

- Durable polyester webbing.
- Sub-pelvic strap keeps the wearer upright.
- 45mm chest strap with metal buckle.
- Manual buckles.



| Ref.      | Size   |
|-----------|--------|
| 10 118 93 | Unique |

Conforms to EN 361 and EN 358



# Suspension harnesses



A sit harness is used to suspend the operator in a comfortable work position with maximum freedom of movement. When there is the risk of a fall the operator should wear a full body harness. The sit harness conforms to EN813 and optionally EN 358. A full body harness conforms to EN 361 and may also fulfil a work positioning function in accordance with EN 358 and/or EN813.

Suspension system: The forces are split between the leg straps and the waist belt rather than being concentrated on the legs, thus providing enhanced ergonomics and increased user comfort whilst reducing the risk of suspension trauma.

# Joints Suspension System

# **ROPAX**



Innovation and technology dedicated to rope access and rescue combining suspension comfort with freedom of movement.

### **FEATURES & BENEFITS**

### **Benefits: Perfect Fit**

- Adjustment webbing straps between the leg straps and the belt.
- V Shape prevents straps from digging and causing irritation.
- Excellent lumber support and comfort.
- Clip-on design safely organises webbing after proper adjustment.
- Increased comfort in suspension.
- Triangular suspension to minimise discomfort and suspension trauma.

### Features: New triangular suspension position

- Shoulder straps in V shape.
- Adjustable webbing sling.
- Extra-wide padded belt.
- Foldable side D-rings.
- · Web finials.
- 3 large gear loops.
- · Left & right tags to facilitate donning.
- Padded leg straps.

An additional webbing sling positions the ascender tight against the chest to facilitate ascension.

### WITH Quick-connect buckles

| Ref.                              | Description                 | Size |
|-----------------------------------|-----------------------------|------|
| 10 144 32                         | Black polyester webbing S/N |      |
| 10 144 33 Black polyester webbing |                             | L/XL |

### WITH MANUAL BUCKLES

| Ref.      | Description                        | Size |
|-----------|------------------------------------|------|
| 10 144 34 | Black polyester webbing            | S/M  |
| 10 144 35 | 0 144 35 Black polyester webbing I |      |

# V Shapes to prevent straps from digging Extra wide padded belt Side D-rings Padded leg strap Left & Right tags

2 Webbing options:DualTech webbing with shape

· Resistant black polyester webbing

retention memory

### WITH Quick-connect buckles

| Ref.   | Description                                  | Size |
|--|--|------|
| 10 151 10 DualTech webbing with shape retention memory |  | S/M  |
| 10 151 11  | DualTech webbing with shape retention memory | L/XL |

Conforms to EN 361, EN 358 and EN 813

# **Options**

# **ERGOSOFT DORSAL PAD**

Designed to protect the back and facilitate harness donning.

- Protects against impacts and abrasion.
- Mesh membrane allows superior air flow.
- The transversal pad is fitted to the dorsal pad.



Ref. 10 152 05

### TRANVERSAL PAD

Used in conjunction with dorsal pad, it allows the user to adopt a semi-reclined work position without straining the abdominals

- Fully adjustable, the transversal pad clips onto the ErgoSoft dorsal pad and connects to the climbing line by means of a karabiner.
- The sliding belt offers a greater freedom of movement and reach.



Ref.





# Suspension harnesses

### **IBX2R FULL BODY HARNESS**



Designed for specialists working hands-free at height or in rescue. 3 point + workpositioning - Rear, sternal and ventral anchorage (loops) and workpositioning side anchorage with belt and padded leg straps.

### **FEATURES & BENEFITS**

### Benefits: Excellent suspension comfort

- Belay connection link distributes the loads to larger muscle groups.
- Reduces discomfort.
- Minimises suspension trauma.
- Easy to fit.

| Ref.      | Description       | Size        |
|-----------|-------------------|-------------|
| 10 073 86 | With tools system | S           |
| 10 070 22 | With tools system | M/L         |
| 10 073 87 | With tools system | XL          |
| 10 102 69 | With tools system | M/L (black) |

Conforms to EN 361, EN 358 and EN 813

### Features: Fall arrest and work-positioning

- Ventral and sternal front webbing loops anchorages.
- Anchorage point for a descender and fall arrest device.
- Advanced buckling system.

| Ref.      | Description          | Size |
|-----------|----------------------|------|
| 10 070 21 | Without tools system | M/L  |



**RAM** 







Flexible sit harness is suitable for for mountain rescue technicians where the harness is worn for short durations only sit Harness.

### **FEATURES & BENEFITS**

### Benefits: Comfortable work position

- Easy to fit.
- Belay connection link distributes the loads to larger muscles groups.
- Minimises discomfort and suspension
- Padding provides excellent support and comfort during suspension.

### Features: Sit harness

- Waist belay loop for rescue and rope
- · Padded belt and leg straps.
- Belt with equipment loops.
- · Lightweight.

| Ref.      | Size |
|-----------|------|
| 10 073 90 | S    |
| 10 070 25 | M/L  |
| 10 073 91 | XL   |
|           |      |

Conforms to EN 813



| Ref.      | Size |
|-----------|------|
| 10 102 51 | S    |
| 10 102 52 | M/L  |
| 10 102 53 | XL   |
|           |      |

Conforms to EN 813







# Work positioning belts

Miller offers a range of heavy-duty work-positioning belts designed to support the user in a hands-free work position at height. These belts can be used on their own when there is no risk of a fall, or alternatively in conjunction with a harness for fall arrest protection.

# TITAN™ WORK POSITIONING BELT



2 Side D-rings.

### **FEATURES & BENEFITS**

### Benefits:

- · Lightweight.
- 2 Stainless steel side D-rings for use with positioning lanyard.

### Feature:

Belt and webbing in polyester.



| Ref.      | Size   |
|-----------|--------|
| 10 082 32 | Unique |

Conforms to EN 358

# **520 WORK POSITIONING BELT**



Ideal for comfortable hands-free work positioning at height 2 Side D-rings rings

### **FEATURES & BENEFITS**

### Benefit:

· Allows good freedom of movement.

### Features:

- 100mm wide padded belt.
- Quick-connect buckle.
- 2 large side D-rings for use with positioning lanyard.



| Ref.      | Size |
|-----------|------|
| 10 063 19 | М    |
| 10 063 20 | L    |

Conforms to EN 358

# **522 WORK POSITIONING BELT**



2 Side D-rings.

### **FEATURES & BENEFITS**

### Benefits:

- Increased comfort and reduced fatigue when working for long hours.
- Belt can be fitted with shoulder straps to relieve the load on the user's hips.
- 2 side D-rings for use with positioning lanyard.

### Features:

- Heavy-duty synthetic back-support
- 200mm wide comfort back pad with quickconnect buckle.
- Fitted with loops for tool bags and accessories.



| Ref.      | Size |
|-----------|------|
| 10 063 21 | М    |
| 10 063 22 | L    |

Conforms to EN 358





# Technical guide

| NIAN 45                            | CTANDADA                      | BEE          | 01750     | AN     | ICHORA( | GE POINT           |       | \A/ED     |          | BUC       | KLES      |           |
|------------------------------------|-------------------------------|--------------|-----------|--------|---------|--------------------|-------|-----------|----------|-----------|-----------|-----------|
| NAME                               | STANDARD                      | REF.         | SIZES     | Dorsal | Sternal | Ventral            | Side  | WEB       | Shoulder | Belt      | Leg       | Chest     |
|                                    | ·                             |              |           | •      | TITAN™  | <sup>™</sup> range |       |           | •        |           |           |           |
| TITAN™                             | EN 361                        | 1011890      | unique    | •      |         |                    |       | Polyester |          |           | Manual    | Manual    |
| TITAN™                             | EN 361                        | 1011891      | unique    | •      | •       |                    |       | Polyester |          |           | Manual    | Manual    |
| TTAN™ + positioning belt           | EN 361, EN 358                | 1011893      | unique    | •      |         |                    | •     | Polyester |          |           | Manual    | Manual    |
| ΠΤΑΝ™ + positioning belt           | EN 361, EN 358                | 1011894      | unique    | •      | •       |                    | •     | Polyester |          |           | Manual    | Manual    |
| , ,                                | ,                             |              |           | D      | URAFLE  | X® RANG            | <br>E | ,         |          |           | l         |           |
|                                    |                               | 1002848      | S         |        |         |                    |       | DuraFlex  | _        |           | Manual    | Manual    |
| DuraFlex® MA02                     | EN 361                        | 1002847      | M/L       |        |         |                    |       | DuraFlex  | _        |           | Manual    | Manual    |
|                                    |                               | 1002850      | S         |        | •       |                    |       | DuraFlex  | Manual   |           | Manual    | Manual    |
| DuraFlex® MA04                     | EN 361                        | 1002849      | M/L       |        | •       |                    |       | DuraFlex  | Manual   |           | Manual    | Manual    |
| DuraFlex® MA04                     |                               | 1007611      | M/L       |        |         |                    |       | DuraFlex  | Manual   |           | Automatic | Manual    |
| Quick-connect buckles              | EN 361                        | 1007612      | XL        | •      | •       |                    |       | DuraFlex  | Manual   |           | Automatic | Manual    |
| kalok odinioot badiado             |                               | 1007012      | S         | •      | •       |                    |       | DuraFlex  | Manual   |           | Manual    | Manual    |
| OuraFlex® MA08                     | EN 361                        | 1002853      | M/L       | •      | •       |                    |       | DuraFlex  | Manual   |           | Manual    | Manual    |
| JUI AFIEX - IVIAUO                 | EN 301                        |              |           |        | •       |                    |       |           |          |           |           |           |
|                                    |                               | 1004959      | XXL       |        |         |                    |       | DuraFlex  | Manual   | NA I      | Manual    | Manual    |
|                                    |                               | 1005137      | S         | •      | •       | •                  | •     | DuraFlex  | Manual   | Manual    | Manual    | Manual    |
|                                    |                               | 1005136      | M/L       | •      | •       | •                  | •     | DuraFlex  | Manual   | Manual    | Manual    | Manual    |
|                                    |                               | 1012463      | S         | •      | •       | •                  | •     | DuraFlex  | Manual   | Automatic | Automatic | Manual    |
| OuraFlex® MA60                     | EN 361,                       | 1012462      | M/L       | •      | •       | •                  | •     | DuraFlex  | Manual   | Automatic | Automatic | Manual    |
| positioning belt                   | EN 358                        | 1013116      | XL        | •      | •       | •                  | •     | DuraFlex  | Manual   | Automatic | Automatic | Manual    |
|                                    |                               | 1031000      | XS        | •      | •       | •                  | •     | DuraFlex  | Manual   | Manual    | Automatic | Manual    |
|                                    |                               | 1031001      | S/M       | •      | •       | •                  | •     | DuraFlex  | Manual   | Manual    | Automatic | Manual    |
|                                    |                               | 1031002      | L/XL      | •      | •       | •                  | •     | DuraFlex  | Manual   | Manual    | Automatic | Manual    |
|                                    |                               | 1031003      | XXL       | •      | •       | •                  | •     | DuraFlex  | Manual   | Manual    | Automatic | Manual    |
| uraFlex® MA58                      | EN 361,                       | 1002858      | S         | •      | •       |                    | •     | DuraFlex  | Manual   |           | Manual    | Manual    |
| - positioning belt                 | EN 358                        | 1002857      | M/L       | •      | •       |                    | •     | DuraFlex  | Manual   |           | Manual    | Manual    |
|                                    |                               | 1004954      | XXL       | •      | •       |                    | •     | DuraFlex  | Manual   |           | Manual    | Manual    |
| Hi Visibility vest DuraFlex®       | EN 361, EN 471                | 1010040      | M/L       | •      | •       |                    |       | DuraFlex  | Manual   |           | Automatic | Manual    |
| Yellow                             | Class 2                       | 1010326      | XL        | •      | •       |                    |       | DuraFlex  | Manual   |           | Automatic | Manual    |
| Hi Visibility vest DuraFlex®       | EN 361, EN 471                | 1014630      | M/L       | •      | •       |                    |       | DuraFlex  | Manual   |           | Automatic | Manual    |
| Orange                             | Class 2                       | 1014631      | XL        | •      | •       |                    |       | DuraFlex  | Manual   |           | Automatic | Manual    |
| Hi Visibility vest DuraFlex®       | EN 361,                       | 1013454      | M/L       | •      | •       | •                  | •     | DuraFlex  | Manual   |           | Manual    | Manual    |
| + positioning belt                 | EN 358,                       | 1013455      | XL        |        |         |                    |       | DuraFlex  | Manual   |           | Manual    | Manual    |
|                                    | EN 471 Class 2                |              |           |        |         | -                  | _     |           |          |           |           |           |
| Black Vest DuraFlex®               | EN 361                        | 1006882      | M/L       | •      | •       |                    |       | DuraFlex  | Manual   |           | Automatic | Manual    |
|                                    |                               | 1007550      | XL        | •      | •       |                    |       | DuraFlex  | Manual   |           | Automatic | Manual    |
|                                    |                               |              |           |        | VOLUTIO | N™ RAN             | GE    |           | 1        |           | l         | 1         |
|                                    |                               | 1014236      | S/M       | •      | •       |                    |       | DuraFlex  | CAM      |           | Automatic | Automatic |
| Ailler Revolution™ R2              | EN 361                        | 1014237      | L/XL      | •      | •       |                    |       | DuraFlex  | CAM      |           | Automatic | Automatic |
|                                    |                               | 1014238      | XXL       | •      | •       |                    |       | DuraFlex  | CAM      |           | Automatic | Automatic |
|                                    |                               | 1014239      | S/M       | •      | •       |                    |       | Dualtech  | CAM      |           | Automatic | Automatic |
| Miller Revolution™ R2              | EN 361                        | 1014240      | L/XL      | •      | •       |                    |       | Dualtech  | CAM      |           | Automatic | Automatic |
|                                    |                               | 1014241      | XXL       | •      | •       |                    |       | Dualtech  | CAM      |           | Automatic | Automatic |
| Aillor PovolutionTM DO             | FN 004                        | 1014242      | S/M       | •      | •       |                    | •     | Dualtech  | CAM      | Automatic | Automatic | Automatic |
| Miller Revolution™ R3<br>Dualtech  | EN 361,<br>EN 358             | 1014243      | L/XL      | •      | •       |                    | •     | Dualtech  | CAM      | Automatic | Automatic | Automatic |
|                                    | 214 000                       | 1014244      | XXL       | •      | •       |                    | •     | Dualtech  | CAM      | Automatic | Automatic | Automatic |
| ATT. D. J. W. TH. T.               | FN 05                         | 1014251      | S/M       | •      | •       |                    | •     | DuraFlex  | CAM      | Automatic | Automatic | Automatic |
| Miller Revolution™ R5<br>DuraFlex® | EN 361,<br>EN 358             | 1014252      | L/XL      | •      | •       |                    | •     | DuraFlex  | CAM      | Automatic | Automatic | Automatic |
| Julai IGA                          | LIN 330                       | 1014253      | XXL       | •      | •       |                    | •     | DuraFlex  | CAM      | Automatic | Automatic | Automatic |
| Miller Revolution™ R5              |                               | 1014254      | S/M       | •      | •       |                    | •     | Dualtech  | CAM      | Automatic | Automatic | Automatic |
|                                    | EN 361,                       | 1014255      | L/XL      | •      | •       |                    | •     | Dualtech  | CAM      | Automatic | Automatic | Automatic |
| Jualtech                           | EN 358                        | 1014256      | XXL       | •      | •       |                    | •     | Dualtech  | CAM      | Automatic | Automatic | Automatic |
|                                    |                               |              |           |        | WIND IN | DUSTRY             |       |           |          |           |           |           |
|                                    | EN 261 EN 260                 | 1014807/WIND | S/M (US)  | •      | •       |                    | •     | Polyester | Manual   | Automatic | Automatic | Manual    |
| Miller Revolution™ R7 OFFS         | EN 361, EN 358,<br>OSHA/ANSI/ | 1014808/WIND | L/XL (US) | •      | •       |                    | •     | Polyester | Manual   | Automatic | Automatic | Manual    |
| TOTOIGNOT TO OTTO                  | CSA/AS/NZ                     | 1014809/WIND | XXL (US)  | •      | •       |                    | •     | Polyester | Manual   | Automatic | Automatic | Manual    |
|                                    |                               |              |           | •      | •       |                    | •     | Dualtech  | CAM      | Automatic |           | Automatic |
| Aillor Povolution M. D.Z. OFFO     | EN 361, EN 358,               | 1014807/0FFS | S/M (US)  |        |         |                    |       |           |          |           | Automatic |           |
| Miller Revolution™ R7 OFFS         | OSHA/ANSI/<br>CSA/AS/NZ       | 1014808/OFFS | L/XL (US) | •      | •       |                    | •     | Dualtech  | CAM      | Automatic | Automatic | Automatic |
|                                    | OUT AUTIL                     | 1014809/0FFS | XXL (US)  | •      | •       |                    | •     | Dualtech  | CAM      | Automatic | Automatic | Automatic |



# Technical guide



| NAME                         | STANDARD                  | REF.          | SIZES | -       |             | GE POINT |       | WEB                     |          |           | KLES      |           |
|------------------------------|---------------------------|---------------|-------|---------|-------------|----------|-------|-------------------------|----------|-----------|-----------|-----------|
| I VAIVIL                     |                           | 114.          | OIZLO | Dorsal  | Sternal     | Ventral  | Side  | VVLD                    | Shoulder | Belt      | Leg       | Chest     |
|                              |                           |               | ·     |         | ROPAX       | RANGE    |       |                         |          |           |           |           |
| Ropax Dualtech               | EN 361,                   | 1015110       | S/M   | •       | •           | •        | •     | Dualtech                | Manual   | Manual    | Automatic |           |
| юрах Бианесн                 | EN 358, EN 813            | 1015111       | L/XL  | •       | •           | •        | •     | Dualtech                | Manual   | Manual    | Automatic |           |
| Ropax - Quick connect buckle | EN 361,<br>EN 358,        | 1014432       | S/M   | •       | •           | •        | •     | Black<br>polyester      | Manual   | Manual    | Automatic |           |
|                              | EN 813                    | 1014433       | L/XL  | •       | •           | •        | •     | Black<br>polyester      | Manual   | Manual    | Automatic |           |
| Ropax manual buckle          | EN 361,<br>EN 358,        | 1014434       | S/M   | •       | •           | •        | •     | Black<br>polyester      | Manual   | Manual    | Manual    |           |
|                              | EN 813                    | 1014435       | L/XL  | •       | •           | •        | •     | Black<br>polyester      | Manual   | Manual    | Manual    |           |
|                              |                           |               |       |         | ATEX CE     | RTIFIED  |       |                         |          |           |           |           |
| Antiototic ATEV              | EN 361, ATEX              | 1015074       | S/M   | •       | •           |          |       | Polyester<br>Antistatic | Manual   |           | Automatic | Automati  |
| Antistatic ATEX              | 94/9/CE                   | 1015075       | L/XL  | •       | •           |          |       | Polyester<br>Antistatic | Manual   |           | Automatic | Automatio |
|                              |                           |               |       | KEVI AI | R - FLAM    | IED RESI | STANT |                         |          |           |           |           |
|                              |                           | 1012333       | S/M   | ·       | I I - I LAW | ILD MESI | JIANI |                         |          |           | Manual    | Monual    |
| Koylar                       | EN 361                    | 1012333       | L/XL  |         |             |          |       | Nomex                   | -        |           | Manual    | Manual    |
| Kevlar                       | EN 301                    |               |       |         |             |          |       | Nomex                   |          |           | Manual    | Manual    |
|                              |                           | 1012335       | XXL   | •       |             |          |       | Nomex                   | -        |           | Manual    | Manual    |
| Kevlar + adjustable shoulder |                           | 1012336       | S/M   | •       |             |          |       | Nomex                   | Manual   |           | Manual    | Manual    |
| strap                        | EN 361                    | 1012337       | L/XL  | •       |             |          |       | Nomex                   | Manual   |           | Manual    | Manual    |
|                              |                           | 1012338       | XXL   | •       |             |          |       | Nomex                   | Manual   |           | Manual    | Manual    |
|                              |                           |               |       | TE      | CHNICAL     | HARNE    | SS    |                         |          |           |           |           |
|                              | EN OO4                    | 1003023       | S     | •       | •           |          | •     | Polyamide               | Manual   | Automatic | Automatic | Automati  |
| Elastokuik comfort           | EN 361,<br>EN 358         | 1003022       | M/L   | •       | •           |          | •     | Polyamide               | Manual   | Automatic | Automatic | Automati  |
|                              |                           | 1003024       | XL    | •       | •           |          | •     | Polyamide               | Manual   | Automatic | Automatic | Automati  |
|                              | EN 361,<br>EN 358         | 1003018       | S     | •       | •           |          | •     | Polyamide               | Manual   | Automatic | Automatic |           |
| Kuik TST                     |                           | 1003017       | M/L   | •       | •           |          | •     | Polyamide               | Manual   | Automatic | Automatic |           |
|                              |                           | 1003028       | M/L   | •       | •           |          | •     | Polyamide               | Manual   | Automatic | Automatic |           |
| Elastotrans                  | EN 361,                   | 1003029       | S     | •       | •           |          | •     | Polyamide               | Manual   | Automatic | Automatic |           |
|                              | EN 358                    | 1003030       | XL    |         | •           |          | •     | Polyamide               | Manual   | Automatic | Automatic |           |
|                              | FN 004                    | 1006077       | S     |         |             |          |       | Polyamide               | Manual   | Manual    | Manual    |           |
| Elastolight                  | EN 361,<br>EN 358         |               | M/L   | •       | •           |          | •     | •                       |          |           |           |           |
|                              |                           | 1006076       |       |         |             |          |       | Polyamide               | Manual   | Manual    | Manual    |           |
| RM                           | EN 361,<br>EN 358         | 1003438       | S     | •       | •           | •        | •     | Polyamide               | Manual   | Automatic | Automatic |           |
|                              | EN 330                    | 1003439       | M/L   | •       | •           | •        | •     | Polyamide               | Manual   | Automatic | Automatic |           |
|                              | EN 361,                   | 1011770       | S     | •       | •           | •        | •     | Polyester               | Manual   | Manual    | Manual    |           |
| Tower                        | EN 358,                   | 1006255       | М     | •       | •           | •        | •     | Polyester               | Manual   | Manual    | Manual    |           |
|                              | EN813                     | 1006256       | L     | •       | •           | •        | •     | Polyester               | Manual   | Manual    | Manual    |           |
| BX2R (black)                 | EN 361,<br>EN 358, EN 813 | 1010269       | M/L   | •       | •           | •        | •     | Polyester               | Manual   | Manual    | Manual    | Manual    |
|                              | EN 361,                   | 1007022       | M/L   | •       | •           | •        | •     | Polyester               | Manual   | Manual    | Manual    | Manual    |
| IBX2R                        | EN 358,                   | 1007386       | S     | •       | •           | •        | •     | Polyester               | Manual   | Manual    | Manual    | Manual    |
|                              | EN 813                    | 1007387       | XL    | •       | •           | •        | •     | Polyester               | Manual   | Manual    | Manual    | Manual    |
| RAM sit Harness              |                           | 1007025       | M/L   |         |             | •        |       | Polyester               |          | Manual    | Manual    |           |
|                              | EN 813                    | 1007390       | S     |         |             | •        |       | Polyester               |          | Manual    | Manual    |           |
|                              |                           | 1007391       | XL    |         |             | •        |       | Polyester               |          | Manual    | Manual    |           |
| RAM sit Harness (black)      | EN 813                    | 1010252       | M/L   |         |             | •        |       | Polyester               |          | Manual    | Manual    |           |
|                              |                           |               |       |         | RITE        | ON NORT  | TH .  |                         |          |           |           | 1         |
| Rite On                      | EN 361                    | FPFV81F/1EDBA |       | •       |             |          |       | Polyester               | Manual   |           | Manual    | Automati  |
|                              |                           |               | 1     | LIGI    |             | IESS NYL | ON N  | ranywte                 | I        | 1         |           |           |
| Light harness nylon extend   | EN 361                    | FPFV701/3ED*  | L     | •       | •           |          |       | Nylon                   |          |           | Manual    | Manual    |
| Light harness nylon          | EN 361                    | FPFV702/3D    | L     | •       | •           |          |       | Nylon                   |          |           | Manual    | Manual    |





Blocks

### MILLER SELF RETRACTING LIFELINES FEATURES

### **SWIVEL**

Prevent damage to the lifeline from twisting during use and binding inside of the unit.



### **WEBBING**

Lightweight and high abrasion resistance.



### **FALL INDICATOR**

Highly visible fall indicator at the snap hook identifies when the unit needs to be removed from service.



### **EDGE TESTED**

Innovative technology for working on edges featuring web with special heat and cut resistance.





### **ENERGY ABSORBER**

Reduces the fall arrest forces in case of a all, located on the lifeline.



### **SCAFF HOOK**

Large opening karabiners allow connecting the self retracting lifeline to a large range of anchorage point.



# CABLE GALVANISED OR STAINLESS STEEL

Cable and karabiners are treated to prevent from corrosion and rusting and extend service life.







Self-retracting lifelines are mechanical devices with quick-activating braking system that limits a free fall to centimetres, with reduced fall arrest forces making this especially suitable for low-space fall clearance. The automatic retractable cable allows freedom of movement for workers who need to move relatively quickly up and down on a worksite. Miller® offers the most comprehensive range of fall arrest blocks including robust lightweight composite blocks, heavyduty fall arrest and rescue models with metallic housing and choice of lifeline materials: webbing, stainless steel, and galvanised steel with lengths available from 2m to 40m.

# FALCON™ BLOCK |











The safest, most robust and comprehensive range of composite retractable lifelines on the market. 6.2m to 20m - Cable self-retracting lifeline.

### **FEATURES & BENEFITS**

### Benefits: Increase durability

- Smooth round edges increase durability.
- Stops the fall within a few centimetres for a quick and safe rescue.
- Lightweight, robust composite unit.
- Easy-to-install.
- Tested and approved for horizontal applications\*.
- No annual factory re-certification required\*\*
- Lowers cost of ownership and increases productivity.
- Lifetime housing guarantee\*\*\*.

### Features: Easy adjustment

- Quick-activating braking mechanism.
- Highly visible fall indicator.
- Screwgate karabiner.
- Dual stainless steel swivels (unit top and snaphook).
- · Corrosion-resistant stainless steel and aluminium internal components.
- · High impact resistant nylon housing.
- Ergonomically designed moulded handle (15 & 20m models).
- Unique side payout design reduces wear on the entry guide bushing and cable.



|             | CABLE         |                  |           | CON    |        |                 |              |                  |
|-------------|---------------|------------------|-----------|--------|--------|-----------------|--------------|------------------|
| REF.        |               | CABLE            | то        | Р      | воттом | SNAP HOOK WITH  | WEIGHT<br>KG | DIMENSIONS<br>MM |
|             |               |                  | KARABINER | SWIVEL | SWIVEL | FALL INDICATOR  |              |                  |
| 1011728     | 6.2           | Galvanised       | •         | •      | •      | Steel           | 4            | 255 x 213 x 101  |
| 1011742     | 10            | Galvanised       | •         | •      | •      | Steel           | 5            | 255 x 213 x 101  |
| 1011746     | 15            | Galvanised       | •         | •      | •      | Steel           | 6.7          | 342 x 246 x 101  |
| 1011750     | 20            | Galvanised       | •         | •      | •      | Steel           | 7.6          | 342 x 246 x 101  |
| 1011729     | 6.2           | Stainless steel  | •         | •      | •      | Steel           | 4            | 255 x 213 x 101  |
| 1011743     | 10            | Stainless steel  | •         | •      | •      | Steel           | 5            | 255 x 213 x 101  |
| 1011747     | 15            | Stainless steel  | •         | •      | •      | Steel           | 6.7          | 342 x 246 x 101  |
| 1011751     | 20            | Stainless steel  | •         | •      | •      | Steel           | 7.6          | 342 x 246 x 101  |
| 1013960     | 6.2           | Stainless steel  |           |        | •      | Stainless steel | 4            | 255 x 213 x 101  |
| 1012261     | 10            | Stainless steel  |           |        | •      | Stainless steel | 5            | 255 x 213 x 101  |
| 1012262     | 15            | Stainless steel  |           |        | •      | Stainless steel | 6.7          | 342 x 246 x 101  |
| 1012263     | 20            | Stainless steel  |           |        | •      | Stainless steel | 7.6          | 342 x 246 x 101  |
|             | ATEX          |                  |           |        |        |                 |              |                  |
| 1017921     | 10            | Stainless steel  | •         |        | •      | •               | 5            | 255 x 213 x 101  |
|             | OFFSHORE KIT  |                  |           |        |        |                 |              |                  |
| 1030222     | 20            | Stainless steel  | •         | •      | •      | Stainless steel | 7.6          | 342 x 246 x 101  |
| + polyamide | e red rope Ø6 | mm, + red protec | tive bag  |        |        |                 |              |                  |

<sup>\*</sup> When used with the appropriate manufa cturer recommended equipment.

<sup>\*\*</sup> The CE standard requires inspection by a trained competent person, following the Miller Repa ir Guide.

<sup>\*\*\*</sup> When used under typical working conditions.

Additional models are available upon request. Please contact our technical service. Conforms to EN 360





### BLACK RHINO™ BLOCK









Designed to endure the daily rigours of harsh environments. 2.7m - stainless steel cable lifeline.

### **FEATURES & BENEFITS**

### Benefits: The smallest and lightest 2.7-metre cable lifeline on the market

- No annual factory re-certification required\*
- lowers cost of ownership and increases productivity.
- Corrosion-resistant components.
- Meets all applicable global industry standards.

| Ref.      | Description  |  |  |  |
|-----------|--|--|--|--|
| 10 124 10 | Black Rhino with swivel screwgate karabiner and swivel snap hook (22mm)  |  |  |  |
| 10 123 92 | Black Rhino with swivel scaffold hook (65mm) and swivel snap hook (22mm) |  |  |  |

Conforms to EN 360

### Features:

- · Quick-activating braking system in high strength stainless steel.
- Integrated fall indicator.
- Integrated internal shock absorber.
- Aluminium housing and hub.



# MIGHTYLITE™ BLOCK





Heavy-duty blocks for harsh conditions and tough environment. 6.2m to 40m - Cable self retracting lifeline.

### **FEATURES & BENEFITS**

### Benefit: For harsh conditions and tough environment

• Heavy-duty performance from a compact and easy-to-use block.

### Features: Lightweight composite blocks with heavy-duty fall arrest

- · Available with webbing, galvanised or stainless steel cable.
- Lifeline available in 6.2 to 40m.
- Pressed steel housing.
- Stainless steel springs.
- Integrated fall indicator.

|           |       | - // ITE OTEE!       |             |                 | CABLE      |         |        |
|-----------|-------|----------------------|-------------|-----------------|------------|---------|--------|
| REF.      | MIGHI | TYLITE STEEL HOUSING |             | STAINLESS STEEL | GALVANISED | WEBBING | HANDLE |
|           | MODEL | LENGTH (M)           | WEIGHT (KG) | Ø 4.8MM         | Ø 4.8MM    | 25MM    |        |
| 10 045 92 | MI55  | 15                   | 9.5         | •               |            |         | •      |
| 10 045 93 | MI56  | 20                   | 14.9        | •               |            |         | •      |
| 10 045 94 | MI57  | 30                   | 19          | •               |            |         | •      |
| 10 045 95 | MI58  | 40                   | 23.6        | •               |            |         | •      |
| 10 028 20 | MI50  | 6.2                  | 4           |                 | •          |         |        |
| 10 045 71 | MI54  | 10                   | 5.6         |                 | •          |         |        |
| 10 045 73 | MI55  | 15                   | 9.5         |                 | •          |         | •      |
| 10 045 72 | MI56  | 20                   | 14.9        |                 | •          |         | •      |
| 10 045 74 | MI57  | 30                   | 19          |                 | •          |         | •      |
| 10 045 75 | MI58  | 40                   | 23.6        |                 | •          |         | •      |
| 10 028 27 | MI70  | 6.2                  | 3.5         |                 |            | •       |        |
| 10 028 28 | MI71  | 15.5                 | 9.4         |                 |            | •       |        |

Conforms to EN 360

# MIGHTEVAC® RESCUE BLOCK









### Benefits: Heavy duty performance

- Easy-to-use
- Used in conjunction with the Miller Tripod and dedicated brackets to form the core of a stable and secure confined entry/rescue system. (For more details, see page 377)
- Conforms to EN 360
- \* The CE standard requires inspection by a trained end-user competent person, following the Miller Repair Guide.







### TURBOLITE™ BLOCK









Best alternative to shock-absorbing lanyards used in Factor 2. 2m - Self retracting webbing lifeline.

### **FEATURES & BENEFITS**

### Benefits: Usable in fall factor 2

- · Compact & lightweight.
- Low space clearance of 1.80m compared to 2.50m for a shock-absorbing lanyard (fall factor 0).
- Adapted to all situations when working with low space clearance.
- Can be used in Fall Factor 2 (below the back D-ring and not lower than foot level).
- Can be used on both ways around
- Rated for up to a 100kg user in fall factor 2 (140kg in fall factor 0 and 1).
- Abrasion resistance and long service life.
- No annual factory recertification required.

### Features: Compact and lightweight 0.86kg

- Built-in web fall indicator identifies when to remove from service.
- Quick activating patent pending braking system.
- · Provides 2m working capacity lifeline.
- Engineered webbing (vectran/polyester webbing) for greater abrasion resistance and long service life.
- · Built-in swivel prevents lifeline from twisting during use.
- · High-strength, impact-resistant nylon housing for maximum durability.
- Meets all applicable OSHA, ANSI A10.32 and Z359-2007, and CSA standards.

| Ref.      | Webbing side      | Block side        |  |  |
|-----------|-------------------|-------------------|--|--|
| 10 180 15 | Twistlock         | Twistlock         |  |  |
| 10 180 13 | Scaff hook (65mm) | Twistlock         |  |  |
| 10 180 14 | Twistlock         | Scaff hook (65mm) |  |  |
| 10 179 00 | Snap hook (21mm)  | Twistlock (21mm)  |  |  |

Conforms to EN 360

# TWIN TURBO™ SYSTEM







An effective solution when working with low fall clearance

### **FEATURES & BENEFITS**

### Benefits: Replacement for double-legged shock-absorbing lanyards

- · Easily adapts two (2) lightweight Miller TurboLite™.
- For continuous 100% tie-off.
- Easy-to-use and assemble/disassemble.
- Easily remove TurboLite from D-Ring. connector for inspection/cleaning/replacement.

### Features: Patent Miller Twin Turbo™ D-Ring connector

- Innovative design that easily connects to the back D-ring of any full body harness.
- Increases worker productivity and versatility with freedom of movement.
- Permits TurboLite to swivel in multiple directions for greater mobility.
- Swivel action prevents webbing from twisting and binding inside the unit.
- Webbing payout smoothly extends and retracts without interruption.
- Weight bracket: 0.395kg.
- Weight: Twin Turbo: 2.1kg.

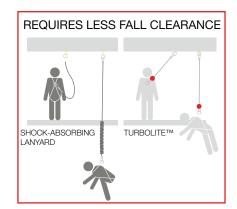


| Ref.      | Description  |
|-----------|--|
| 10 297 15 | Twin Turbo bracket   |
| 10 297 16 | Twin Turbo bracket & two TurboLite 1018013 with 2 aluminium scaff hook |

Conforms to EN 362: 2004 (OSHA 1926.502, 1910.66; ANSI Z359-2007 and A10.32 et CSA

\* The CE standard requires inspection by a trained competent person, following the Miller Repair Guide.











# **Edge-tested personal fall limiter!**

Whilst the risk of failure on an edge is often present during work at height, this hazard is relatively unknown. Miller developed a solution to this problem with the Scorpion™ Edge-Tested Personal Fall Limiter to ensure safety in the event of a fall on edges!

### SCORPION™ EDGE BLOCK







Inexpensive alternative for single energy absorbing lanyard. 2.7m - Edge tested retractable webbing lifeline.

### **FEATURES & BENEFITS**

### Benefits: Extremely robust and lightweight

- Reduces the impact forces due to a fall to under 6kN.
- Reduces the risk of tripping or snagging
- Eliminates the need for an extended fall distance clearance.
- Housing and internal components are corrosion resistant.
- No annual factory re-certification required\*
- lowers cost of ownership and increases productivity.

### Features: Resistant to fall over an edge

- Extremely robust and lightweight.
- · Quick-activating braking mechanism limits a free fall to centimetres.
- Visual fall indicator indicates the unit must be removed from service.
- Corrosion-resistant internal parts.
- · High impact polymer cover.
- Stainless steel/aluminium components.
- · Swivel at the top of unit to prevent lifeline from twisting during use.
- Weight: 1.750kg.









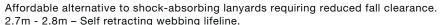


### SCORPION™ BLOCK









### **FEATURES & BENEFITS**

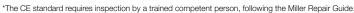
### Benefits: Reduced fall arrest forces

- Unique snap-hook design for easy attachment to harness D-ring.
- Eliminates the need for an extended fall distance clearance.
- The retractable lifeline reduces the risk of tripping or snagging.
- No annual factory re-certification required\*
- lowers cost of ownership and increases productivity.

### Features: Greater mobility and prevents tripping hazards

- · Quick-activating, high-strength stainless steel braking system.
- Compact and lightweight (1.6kg).
- · Visual fall indicator indicates when the unit must be removed from service.
- Corrosion-resistant internal parts.
- High impact polymer cover.
- Stainless steel/aluminium body.
- Lifeline material: polyamide webbing.
- Swivel at the top of unit to prevent lifeline from twisting during use.

| Scorpion™ | Length | Anchorage connection       | Harness connection  |
|-----------|--------|----------------------------|---------------------|
| 10 085 88 | 2.8m   | Scaff hook (65mm)          | Automatic karabiner |
| 10 085 87 | 2.7m   | Screw karabiner            | Automatic karabiner |
| 10 085 94 | 2.8m   | Automatic karabiner (65mm) | Scaff hook          |
| 10 085 93 | 2.7m   | Automatic karabiner (65mm) | Automatic karabiner |





# FALCON™ BLOCK



6m-Self retracting webbing lifeline

### **FEATURES & BENEFITS**

### **Benefits: Increased Service Life**

- Nylon casing comes with a lifetime guarantee.
- Best length/weight ratio on the market (6m unit weighs only 1.5kg).

| Ref.      | Anchorage connection | Harness connection |  |  |
|-----------|----------------------|--------------------|--|--|
| 10 167 93 | Swivel               | -                  |  |  |
| 10 167 94 | Scaff hook (65mm)    | Screwgate          |  |  |
| 10 167 95 | Screwgate            | Screwgate          |  |  |
| 10 167 96 | Screwgate            | Snap hook (22mm)   |  |  |

Conforms to FN 360

### Features:

- · Lightest, most compact 6m web selfretracting lifeline.
- Quick activating braking mechanism.
- Webbing provides extremely high abrasion resistance (tested > 20,000 cycles).
- Offers Xtreme durability with a strong, composite housing.
- Swivel at the top of unit to prevent lifeline from twisting during use.



# **AVIABLOC**









1.5m and 2.5m - Retractable polyamide webbing lifeline

### **FEATURES & BENEFITS**

### Benefits:

- · Working capacity of 2.5m maximum.
- Reduces the impact force of a fall.
- Integrated shock-absorber.
- Swivel at the harness connexion side to avoid twisting of the webbing.

| Ref. Housing | Length | Anchorage connection | Harness connection |
|--------------|--------|----------------------|--------------------|
| 10 030 59    | 1.5m   | Sgk*                 | Sgk*               |
| 10 028 71    | 2.5m   | Sgk*                 | Sgk*               |
| 10 108 93    | 2.5m   | Snap hook            | Sgk*               |
| 10 083 32    | 2.5m   | -                    | -                  |

Conforms to EN 360 \*Sgk: screw gate karabiner

| Ref.<br>No Housing | Length | Anchorage connection | Harness connection |
|--------------------|--------|----------------------|--------------------|
| 10 083 31          | 2.5m   | Sgk*                 | Sgk*               |
| 10 083 30          | 2.5m   | -                    | Sgk*               |



### **MINILITE™**









Fall arrest block with a quick-activating braking system that limits free falls 3.3m - Self retracting webbing lifeline

### **FEATURES & BENEFITS**

### Benefits:

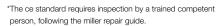
- Increased freedom of movement.
- · Long product durability.
- Lightweight.
- No annual factory re-certification required\*
- Lowers cost of ownership and increases productivity.

### Features:

- High-impact composite housing and corrosion resistant interior, frame and components.
- High-strength stainless steel quick activating braking system that limits free fall to
- · Lightweight, compact design that fits in the palm of your hand, only 1.1kg.
- · Visual fall indicator indicates when the unit must be removed from service.

| Ref. Housing | Length      | Anchorage connection     | Harness connection      |
|--------------|-------------|--------------------------|-------------------------|
| 10 061 00    | MI10 – 3.1m | CS20                     | Swivel snap hook (18mm) |
| 10 061 01    | MI11 – 3.3m | Swivel scaff hook (50mm) | Snap hook (18mm)        |
| 10 061 02    | MI12 – 3.1m | CS20                     | Snap hook (18mm)        |

Conforms to EN 360









# **DURALITE II & III**





Until now fall arrest blocks were either relatively heavy and serviceable, or light weight and disposable. The North's Duralite range combines the best of both. A composite housing and Dyneema web lanyard result in a low weight. The high tensile, non-corrosive metal parts result in a fully serviceable unit with a long lifetime. North's Duralite range has a built-in energy absorber. The dyneema webbing is cut resistant. The Duralite range can be used for various applications like ladder climbing, industrial maintenance, warehousing, etc.

### **FEATURES & BENEFITS**

### Benefit:

- Cut resistant.
- · Light weight.
- Swivel to prevent webbing from twisting (Auto inline positioning).

### Features:

- Lanyard Polyester + Dyneema cut resistant webbing.
- Servicable.
- Plastic housing.
- Housing Glass filled Nylon\*
- Bolts Stainless steel
- Hook: either aluminium + stainless steel or zinc plated steel
- Internal parts Stainless steel + Aluminium + glass filled







DURALITE II

|   | Ref.       | Designation                  | Length | Anchorage connexion                 | Weight  | Shock absorber |
|---|------------|------------------------------|--------|-------------------------------------|---------|----------------|
|   | 840700.W6  | Duralite FP1/306W alloy hook | 6m     | Aluminium double action<br>snaphook | 2.525kg | Internal       |
| Ī | 840700.W6S | Duralite FP1/306W steel hook | 6m     | Steel double action snaphook        | 2.525kg | Internal       |

### **DURALITE III**

| Ref.         | Designation                  | Length | Anchorage connexion                 | Weight  | Shock absorber |
|--------------|------------------------------|--------|-------------------------------------|---------|----------------|
| 840800.W3ASA | Duralite III alu hook + SA   | 3.6m   | Aluminium double action<br>snaphook | 1.100kg | External       |
| 840800.W3SSA | Duralite III steel hook + SA | 3.6m   | Steel double action snaphook        | 1.100kg | External       |

Conforms to EN 360 CSA Z259.2.2 98 / ANSI Z359.1-92

\*Technical Performance

Maximum arrest-force: 4 KN (for 0 cm free fall) Maximum arrest-force: 6 KN (for 60 cm free fall)

Maximum working load: 150 Kg

# Training for work at height





### Reduce accidents and increase compliance!

Honeywell provides a complete range of industrial safety at height and rescue training services which can be tailored to your needs. Many applications are covered including wind energy, utilities, oil and gas, construction, transportation to name a few. Training courses can be delivered either at your work site or at a Honeywell venue.

Inspection and repair programmes are also available.

Honeywell

For further information, please contact the training department by telephone: + 44 (0) 1256 693 200 or email: info-uk.hsp@honeywell.com

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| LENGTH | REF.    | STANDARD              | CABLE      |                 | WEBBING FALL | ANCHOF<br>CONNEC | RAGE<br>CTION | HAR    | NESS CONNECTION | FALL                      | WEIGHT                |        |
|--------|---------|-----------------------|------------|-----------------|--------------|------------------|---------------|--------|-----------------|---------------------------|-----------------------|--------|
| LENGIH | HEF.    | 2 IANDARD             | Galvanised | Stainless Steel | VVEDDING     | FACTOR           | Karabiner     | Swivel | Swivel          | Harness connection        | INDICATOR             | WEIGHT |
|        |         |                       |            |                 |              | FALCON™          |               |        |                 |                           |                       |        |
| 6.2m   | 1011728 | EN 360                | •          |                 |              | 0 - 1 - 2        | Screwgate     | •      | •               | Steel snap hook           | At snap hook          | 4kg    |
| 10m    | 1011742 | EN 360                | •          |                 |              | 0 - 1 - 2        | Screwgate     | •      | •               | Steel snap hook           | At snap hook          | 5kg    |
| 15m    | 1011746 | EN 360                | •          |                 |              | 0 - 1 - 2        | Screwgate     | •      | •               | Steel snap hook           | At snap hook          | 6.7kg  |
| 20m    | 1011750 | EN 360                | •          |                 |              | 0 - 1 - 2        | Screwgate     | •      | •               | Steel snap hook           | At snap hook          | 7.6kg  |
| 6.2m   | 1011729 | EN 360                |            | •               |              | 0 - 1 - 2        | Screwgate     | •      | •               | Steel snap hook           | At snap hook          | 4kg    |
| 10m    | 1011743 | EN 360                |            | •               |              | 0 - 1 - 2        | Screwgate     | •      | •               | Steel snap hook           | At snap hook          | 5kg    |
| 15m    | 1011747 | EN 360                |            | •               |              | 0 - 1 - 2        | Screwgate     | •      | •               | Steel snap hook           | At snap hook          | 6.7kg  |
| 20m    | 1011751 | EN 360                |            | •               |              | 0 - 1 - 2        | Screwgate     | •      | •               | Steel snap hook           | At snap hook          | 7.6kg  |
| 6.2m   | 1028680 | EN 360                |            | •               |              | 0 - 1 - 2        |               | •      | •               | Stainless steel snap hook | At snap hook          | 4kg    |
| 10m    | 1028681 | EN 360                |            | •               |              | 0 - 1 - 2        |               | •      | •               | Stainless steel snap hook | At snap hook          | 5kg    |
| 15m    | 1028682 | EN 360                |            | •               |              | 0 - 1 - 2        |               | •      | •               | Stainless steel snap hook | At snap hook          | 6.7kg  |
| 20m    | 1028683 | EN 360                |            | •               |              | 0 - 1 - 2        |               | •      | •               | Stainless steel snap hook | At snap hook          | 7.6kg  |
| 10m    | 1017921 | ATEX                  |            |                 |              |                  | Screwgate     | •      | •               | Steel snap hook           | At snap hook          | 5kg    |
|        |         |                       |            |                 | Note: Fact   | tor 2 only with  | n steel sling |        |                 |                           |                       |        |
|        |         |                       |            |                 | E            | BLACK RHIN       | 0             |        |                 |                           |                       |        |
| 2.7m   | 1012410 | EN 360                |            | •               |              | 0 - 1            | Screwgate     | •      | •               | Steel snap hook           | At snap hook          | 2kg    |
| 2.7m   | 1012392 | EN 360                |            | •               |              | 0 - 1            | Scaffold hook | •      | •               | Steel snap hook           | At snap hook          | 2.3kg  |
|        | ı       |                       |            | I               | 1            | MIGHTYLITI       | <b>=</b>      |        |                 |                           |                       |        |
| 6.2m   | 1002820 | EN 360                | •          |                 |              | 0 - 1            |               |        | •               | Steel snap hook           | At snap hook          | 4kg    |
| 10m    | 1004571 | EN 360                | •          |                 |              | 0 - 1            |               |        | •               | Steel snap hook           | At snap hook          | 5.6kg  |
| 15m    | 1004573 | EN 360                | •          |                 |              | 0 - 1            |               |        | •               | Steel snap hook           | At snap hook          | 9.5kg  |
| 20m    | 1004572 | EN 360                | •          |                 |              | 0 - 1            |               |        | •               | Steel snap hook           | At snap hook          | 14.9kg |
| 30m    | 1004574 | EN 360                | •          |                 |              | 0 - 1            |               |        | •               | Steel snap hook           | At snap hook          | 19kg   |
| 40m    | 1004575 | EN 360                | •          |                 |              | 0 - 1            |               |        | •               | Steel snap hook           | At snap hook          | 23.6kg |
| 15m    | 1004592 | EN 360                |            | •               |              | 0 - 1            |               |        | •               | Steel snap hook           | At snap hook          | 9.5kg  |
| 20m    | 1004593 | EN 360                |            | •               |              | 0 - 1            |               |        |                 | Steel snap hook           | At snap hook          | 14.9kg |
| 30m    | 1004594 | EN 360                |            |                 |              | 0 - 1            |               |        | •               | Steel snap hook           | At snap hook          | 19kg   |
|        |         |                       |            | •               |              | 0 - 1            |               |        | •               | <u> </u>                  | At snap hook          | -      |
| 40m    | 1004595 | EN 360                |            | •               |              | -                |               |        |                 | Steel snap hook           |                       | 23.6kg |
| 6.2m   | 1002827 | EN 360                |            |                 | •            | 0 - 1            |               |        | •               | Steel snap hook           | At snap hook          | 3.5kg  |
| 15.5m  | 1002828 | EN 360                |            |                 | •            | 0 - 1            |               |        | •               | Steel snap hook           | At snap hook          | 9.4kg  |
|        | I       |                       |            |                 | 1            | MIGHTY EVA       | C             | 1      |                 |                           |                       | T      |
| 15m    | 1005149 | EN 360                | •          |                 |              | 0 - 1            |               |        | •               | Steel snap hook           | At snap hook          | 13.5kg |
| 30m    | 1005160 | EN 360                | •          |                 |              | 0 - 1            |               |        | •               | Steel snap hook           | At snap hook          | 24.7kg |
| 40m    | 1005161 | EN 360                | •          |                 |              | 0 - 1            |               |        | •               | Steel snap hook           | At snap hook          | 27.6kg |
| 15m    | 1014390 | EN 360                |            | •               |              | 0 - 1            |               |        | •               | Steel snap hook           | At snap hook          | 11.2kg |
| 30m    | 1014370 | EN 360                |            | •               |              | 0 - 1            |               |        | •               | Steel snap hook           | At snap hook          | 18.5kg |
|        |         | EN 200 ANO            |            |                 |              | TURBOLITE        | :             |        |                 |                           | Wah ahaali            |        |
| 2m     | 1018015 | EN 360. ANSI.<br>OSHA |            |                 | •            | 0 - 1 - 2        | Screwgate     | •      |                 | Screwgate                 | Web shock<br>absorber | 0.86kg |
| 2m     | 1018013 | EN 360. ANSI.<br>OSHA |            |                 | •            | 0 - 1 - 2        | Screwgate     | •      |                 | Scaffold hook             | Web shock<br>absorber | 0.86kg |
| 2m     | 1018014 | EN 360. ANSI.<br>OSHA |            |                 | •            | 0 - 1 - 2        | Scaffold hook | •      |                 | Screwgate                 | Web shock<br>absorber | 0.86kg |
| 2m     | 1017900 | EN 360. ANSI.<br>OSHA |            |                 | •            | 0 - 1 - 2        | Screwgate     | •      |                 | Steel snap hook           | Web shock<br>absorber | 0.86kg |





| LENGT        | DEE              | OTANDADD.                                     | CA         | ABLE            | MEDDING | FALL       | ANCHOF<br>CONNEC           |        | HAR    | NESS CONNECTION             | FALL                                | \\/EIG |
|--------------|------------------|---|------------|-----------------|---------|------------|----------------------------|--------|--------|-----------------------------|-------------------------------------|--------|
| LENGTH       | REF.             | STANDARD                                      | Galvanised | Stainless Steel | WEBBING | FACTOR     | Karabiner                  | Swivel | Swivel | Harness connection          | INDICATOR                           | WEIG   |
|              |                  |   |            |                 |         | TWIN TURB  | 0                          |        |        |                             |                                     |        |
| 2m           | 1029716          | EN 360. ANSI.<br>OSHA                         |            |                 | •       |            | Twin turbo<br>D-Ring       |        |        | 2 x Scaffold hook           | Web shock<br>absorber               | 2.1k   |
|              |                  |   |            |                 |         | FALCON™    | 1                          |        |        |                             |                                     |        |
| 6m           | 1016793          | EN 360  |            |                 | •       | 0          |                            | •      |        |                             |                                     | 1.5k   |
| 6m           | 1016794          | EN 360  |            |                 | •       | 0          | Scaffold hook              | •      |        | Screwgate                   |                                     | 1.9    |
| 6m           | 1016795          | EN 360  |            |                 | •       | 0          | Screwgate                  | •      |        | Screwgate                   |                                     | 1.6    |
| 6m           | 1016796          | EN 360  |            |                 | •       | 0          | Screwgate                  | •      |        | Snap hook                   |                                     | 1.6    |
|              |                  |   |            |                 |         | SCORPION   | 1                          |        |        |                             | Web shock                           |        |
| 2.8m         | 1008588          | EN 360  |            |                 | •       | 0 - 1      | Scaffold hook              | •      |        | Snap hook                   | absorber<br>Web shock               | 2k     |
| 2.7m         | 1008587          | EN 360  |            |                 | •       | 0 - 1      | Screwgate                  | •      |        | Snap hook                   | absorber<br>Web shock               | 2k     |
| 2.8m<br>2.7m | 1008594          | EN 360<br>EN 360                              |            |                 | •       | 0 - 1      | Screwgate                  | •      |        | Scaffold hook Scaffold hook | absorber<br>Web shock               | 2k     |
| 2./111       | 1006593          | EN 300  |            |                 |         | ION™ EDGE  | Snap hook                  | •      |        | Scarroid flook              | absorber                            | 2k     |
| 2.7m         | 1016840          | EN 360:2002;<br>CNB/P/11.060                  |            |                 | •       | 0 -1 -2    | Screwgate                  | •      |        | Snap hook                   | Web shock<br>absorber               | 1.5    |
| 2.7m         | 1016841          | EN 360:2002;<br>CNB/P/11.060                  |            |                 | •       | 0 -1 -2    | Scaffold hook              | •      |        | Screwgate                   | Web shock absorber                  | 1.75   |
| 2.7m         | 1016842          | EN 360:2002;<br>CNB/P/11.060                  |            |                 | •       | 0 -1 -2    | Scaffold hook              | •      |        | Snap hook                   | Web shock absorber                  | 1.75   |
|              |                  | CND/F/11.000                                  |            |                 |         | MINILITE   |                            |        |        | ·                           | ansorner                            |        |
| 3.1m         | 1006100          | EN 360  |            |                 | •       | 0 - 1      | Screwgate                  | •      |        | Snap hook                   | Web shock<br>absorber               | 1.1    |
| 3.3m         | 1006101          | EN 360  |            |                 | •       | 0 - 1      | Scaffold hook              |        | •      | Snap hook                   | Web shock<br>absorber               | 1.1    |
| 3.1m         | 1006102          | EN 360  |            |                 | •       | 0 - 1      | Screwgate                  |        |        | Snap hook                   | Web shock<br>absorber               | 1.1    |
|              |                  |   |            |                 |         | AVIABLOC   | ;                          |        |        |                             |                                     |        |
| 1.5m         | 10 030 59        | EN 360  |            |                 | •       | 0 - 1      | Screw gate karabiner       |        |        | Sgk*                        | Web shock<br>absorber               | 1.19   |
| 2.5m         | 10 028 71        | EN 360  |            |                 | •       | 0 - 1      | Screw gate karabiner       |        |        | Sgk*                        | Web shock<br>absorber               | 1.37   |
| 2.5m         | 10 108 93        | EN 360  |            |                 | •       | 0 - 1      | Snap hook                  |        |        | Sgk*                        | Web shock<br>absorber               | 1.52   |
| 2.5m         | 10 083 32        | EN 360  |            |                 | •       | 0 - 1      | -                          |        |        | -                           | Web shock<br>absorber               | 0.98   |
| 2.5m         | 10 083 31        | EN 360  |            |                 | •       | 0 - 1      | Screw gate karabiner       |        |        | Sgk*                        | Web shock<br>absorber               | 0.92   |
| 2.5m         | 10 083 30        | EN 360  |            |                 | •       | 0 - 1      | -                          |        |        | Sgk*                        | Web shock<br>absorber               | 0.88   |
|              |                  |   |            |                 |         | DURALITE   | NORTH<br>by Honeywood      |        |        |                             |                                     |        |
| 6m           | 840700.<br>W6    | EN 360 CSA<br>Z259.2.2 98 /<br>ANSI Z359.1-92 |            |                 | •       |            | Aluminium double action    |        |        | -                           | Web shock<br>absorber<br>(Internal) | 2.52   |
| 6m           | 840700.<br>W6S   | EN 360 CSA<br>Z259.2.2 98 /                   |            |                 | •       |            | Steel double action        |        |        | -                           | Web shock absorber                  | 2.52   |
|              |                  | ANSI Z359.1-92                                |            |                 |         | DUBALITE!  |                            |        |        |                             | (Internal)                          |        |
|              |                  | EN 360 CCV                                    |            |                 |         | DURALITE I | by Honeywell               |        |        |                             | Wah abaak                           |        |
| 3.6m         | 840800.<br>W3ASA | EN 360 CSA<br>Z259.2.2 98 /<br>ANSI Z359.1-92 |            |                 | •       |            | Aluminium<br>double action |        |        | -                           | Web shock<br>absorber<br>(External) | 1.10   |
| 3.6m         | 840800.<br>W3SSA | EN 360 CSA<br>Z259.2.2 98 /<br>ANSI Z359.1-92 |            |                 | •       |            | Steel double action        |        |        | -                           | Web shock<br>absorber<br>(External) | 1.10   |





# Lanyards

A lanyard is used to connect the workers harness to the anchorage point as an intermediate attachment when working at height. A connecting lanyard may be one of the 3 types: Fall Restraint, Fall Arrest or Work Positioning.

# **MILLER LANYARDS FEATURES**

### **ENERGY SHOCK ABSORBER**

Featuring a built-in absorber which limits the fall arrest force in a fall situation to 6 kN.



### **ADJUSTABLE**

Fall arrest, restraint or work positioning lanyard can be easily adjusted to the length needed to work safely and comfortably.



### **ELASTICATED MANYARD®**

Light and stretchable, it moves with the worker and reduces tripping or snagging hazards.



### **EDGE TESTED**

Innovative technology for working on edges, features webbing with special heat and cut resistance.



### **CONNECTORS**

Connectors are available to attach to different anchorage points.









# Rope shock-absorbing lanyards

Between rope and webbing shock-absorbing lanyards, the choice is primarily one of preference since they both offer the same high level of performance. Available with a variety of attachments and designed to better meet fall protection needs.

# TITAN™ B













Rope shock-absorbing lanyard. No connectors.

| Ref.      | Length |
|-----------|--------|
| 10 082 75 | 1.8m   |

# TITAN™ B1









Rope shock-absorbing lanyard with snap hook and screwgate karabiner

| Ref.      | Length |
|-----------|--------|
| 10 082 76 | 2.0m   |

# TITAN™ C3





Rope shock-absorbing lanyard with screwgate karabiner and scaffold hook (65mm opening).

| Ref.      | Length |
|-----------|--------|
| 10 082 81 | 2.0m   |

# **ME/AMORSTOP**











Rope lanyard with shock absorber

### **FEATURES & BENEFITS**

### Benefits: Cost-effective choice for fall protection

- Adapted to harsh work conditions and difficult work environments.
- Small size for reduced weight.
- Easy to handle and carry.

### Features:

• Made of highly resistant and durable 12mm polyamide rope.



| Model    | Ref.    | Length (m) | Harness Connector |  | Anchorage Connector                |          |
|----------|---------|------------|-------------------|--|------------------------------------|----------|
| ME51     | 1002906 | 2          | CS20              |  | 65mm<br>aluminium<br>Scaffold hook |          |
| ME52     | 1002907 | 2          | CS20              |  | CS20                               |          |
| AMORSTOP | 1003216 | 1.5        | CS20              |  | CS20                               |          |
| ME53     | 1004578 | 2          | CS20              |  | 18mm<br>Snap hook                  | 1        |
| ME53     | 1005290 | 1.5        | CS20              |  | 18mm<br>Snap hook                  | 1        |
| ME54     | 1004591 | 2          | CS20              |  | 55mm<br>Scaffold hook              |          |
| ME54     | 1005278 | 1.5        | CS20              |  | 55mm<br>Scaffold hook              | <b>5</b> |
| AMORSTOP | 1003220 | 1.3        | None              |  | None                               |          |





## Webbing shock-absorbing lanyards

## TITAN™ A2









Webbing shock absorbing lanyard with screwgate karabiner).



| Ref.      | Length |
|-----------|--------|
| 10 143 30 | 1.5m   |

Standard: EN 355.

## TITAN™ A3









Webbing shock absorbing lanyard with screwgate karabiner and scaffold hook (65mm).



| Ref.      | Length |
|-----------|--------|
| 10 134 30 | 2m     |
| 10 151 40 | 1.75m  |
| 10 160 96 | 1.5m   |

Standard: EN 355.

## **ME00-06**











Webbing lanyard with shock absorber, 1.5m to 2m.

## Benefits: Cost-effective choice for fall protection

- Adapted to harsh work conditions and difficult work environments.
- Small size for reduced weight.
- Easy to handle and carry.

#### Features:

• Made of highly resistant and durable 23mm polyester webbing.



ME02

| Model | Ref.    | Length (m) | Harness | s Connector | Anchorage C           | Connector |
|-------|---------|------------|---------|-------------|-----------------------|-----------|
| ME00  | 1002901 | 1.8        | None    |             | None                  |           |
| ME02  | 1002903 | 2          | CS20    |             | CS20                  |           |
| ME03  | 1002904 | 2          | ML06    |             | ML06                  |           |
| ME06  | 1005279 | 1.5        | CS20    |             | 65mm<br>Scaffold hook | <b>5</b>  |
| ME06  | 1004579 | 2          | CS20    |             | 65mm<br>Scaffold hook | <b>3</b>  |



## Forked webbing lanyards



Used to ensure a permanent connection to an anchorage point at all times when climbing on and round the work place. Maintaining an anchorage connection as high as possible minimises the fall clearance, reducing the effect of a fall by stopping impact with structure.

## 1.5M TO 2M WEBBING FORKED **LANYARD 100% TIE-OFF**









#### **FEATURES & BENEFITS**

## Benefits: Permanently connected when moving

- · Easily connected and removed.
- Double-legged lanyard to move around whilst being connected at all times.
- · Compact, light-weight shock-absorber.

## Features: Lightweight & versatile fall arrest lanyard designed for maximum protection

- Robust polyester webbing 23mm.
- Integrated polyamide shock-absorber.





## **TITAN**<sup>TM</sup>

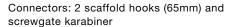














| Ref.      | Length |
|-----------|--------|
| 10 134 31 | 2m     |

## ATEX LANYARD





## **FEATURES & BENEFITS**

• Prevents risk of electrostatic discharge igniting an explosive atmosphere.

## Features:

- Energy absorber.
- 2 GO60 karabiner and 1 twist lock karabiner.
- Antistatic polyester webbing 25mm.
- · Shock absorber: Polyester/Polyamide.



| Ref.      | Length |
|-----------|--------|
| 10 158 59 | 1.15m  |

Standard: EN 355. ATEX EN 13463-1 (2001)

## TIE-BACK FORKED SHOCK-ABSORBING LANYARD









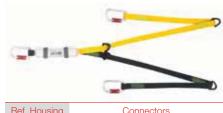
Technical Fall arrest lanyard

#### **FEATURES & BENEFITS**

#### Benefits:

- Forked lanyard for 100% tie-off: Ideal for ascension of a tower or ladder.
- Shock-absorber limits fall arrest forces < 6kN.

- 1.5m webbing lanyard with shock-absorber, and 4 loops.
- Multi-point attachment system so that the lanyard can be used in tie-back.
- · Compact and lightweight.



| Ref. Housing | Connectors                                 |
|--------------|--|
| 10 070 13    | 3 captive eye karabiners<br>(18mm opening) |
| 10 070 15    | without connectors                         |
| 10 102 06    | with 2 scaff hooks 65mm                    |





## **Restraint lanyards**

## **TITAN**<sup>TM</sup>











## Benefit: Lightweight

• With or without connectors.

## Features: Polyamide rope - 12mm

- Available length from 1m to 1.8m.
- Spliced loop with protective plastic thimble.

| Ref.      | Length |
|-----------|--------|
| 10 082 70 | 1m     |
| 10 082 71 | 1.5m   |
| 10 082 72 | 1.8m   |

Conforms to EN 354

# TITAN™ R14



Adjustable without connectors



| Ref.      | Length |
|-----------|--------|
| 10 082 73 | 1.8m   |

Conforms to EN 354

## **ME00 - MD06**









## **FEATURES & BENEFITS**

## **Benefit: Lightweight**

• With or without connectors.

## Features: Polyamide rope - 12mm

- Available length from 0.35m to 2m.
- Galvanised connectors.
- Spliced loop with protective plastic thimble.



| Model | Ref.    | Length (m) |      | Connector |                          | Connector |
|-------|---------|------------|------|-----------|--------------------------|-----------|
| MD00  | 1002881 | 1          | Loop | Comme     | CS20                     |           |
| MD00  | 1002882 | 2          | Loop |           | CS20                     |           |
| MD02  | 1002883 | 1          | CS20 |           | CS20                     |           |
| MD02  | 1002884 | 2          | CS20 |           | CS20                     |           |
| -     | 1002885 | 1          | CS20 |           | 63mm<br>Scaffold<br>hook |           |
| -     | 1002886 | 2          | CS20 |           | 63mm<br>Scaffold<br>hook |           |
| MD02  | 1004711 | 1.5        | CS20 |           | CS20                     |           |
| MD06  | 1030951 | 0.40       | Loop |           | 2 x CS20                 |           |

## Work positioning lanyards

Used to allow hands free work, to complement a fall arrest system. The length is easily adjustable with one hand to fit around the structure and then onto the side D-rings of the harness'belt.

## **REGLEX 3000**









Offers a continous adjustment, this work-positioning lanyard can be easily operated with one-hand.

2m to 4m - Work positioning lanyard equipped with a cam type adjuster in stainless steel.

#### **FEATURES & BENEFITS**

## **Benefits: User friendly**

- Allows the operator a comfortable hands-free work position.
- Easy to use and to setup.
- One hand adjustment.
- End splice to prevent the rope adjuster to be removed.

| Ref. Housing | Length                    | Description            |
|--------------|---------------------------|------------------------|
| 10 031 10    | 2m                        | With protection sleeve |
| 10 031 11    | 3m With protection sleeve |                        |
| 10 031 12    | 4m                        | With protection sleeve |

Conforms to EN 358

## Features: Designed to fit around a structure and connect to harness side

- · Cam type adjuster in stainless steel.
- Polyester, 14mm, 3-strand rope.
- Progressive adjustment.
- With or without rope protection sleeve.
- Double action snap hook and a screw gate karabiner CS20.

| Ref. Housing | Length | Description               |  |
|--------------|--------|---------------------------|--|
| 10 031 04    | 2m     | Without protection sleeve |  |
| 10 031 05    | 3m     | Without protection sleeve |  |
| 10 031 06    | 4m     | Without protection sleeve |  |















## **FEATURES & BENEFITS**

## Benefit: Ideal for those who have to work at height in a safe and supported handsfree position

• Easy to connect to the side D-rings of the harness.

| Ref.      | Length |
|-----------|--------|
| 10 028 78 | 2m     |
| 10 028 79 | 3m     |
| 10 028 80 | 4m     |

Conforms to EN 358

#### Features: Easy to use

- Jaw type length adjuster for progressive onehanded adjustment.
- Ø 16mm polyamide rope.
- Connectors: galvanised steel karabiner and alloy snap hook, 18mm opening.



## TITAN™









Adjustable work positioning lanyard

## **FEATURES & BENEFITS**

#### Benefits:

- Easy to use.
- Adjustable.

- Adjustable 12mm or 14mm polyamide rope lanyard.
- Length 1.8m to 2m.

| Ref. Housing | Ø rope | Length | Connectors                   |  |  |
|--------------|--------|--------|------------------------------|--|--|
| 10 082 85    | 12mm   | 1.80m  | No connector                 |  |  |
| 10 082 87    | 12mm   | 2m     | Loop and twistlock karabiner |  |  |
| 10 082 88    | 12mm   | 2m     | 2 twistlock karabiners       |  |  |
| 10 082 86    | 14mm   | 2m     | Loop and 18mm snap hook      |  |  |









## Work positioning lanyards





## Work positioning lanyards











Work positonning lanyard that leaves your hands free to work in complete safety!

#### **FEATURES & BENEFITS**

## Benefits: Ergonomic, Flexible, Interchangeable lanyard and ultra-resistant

- Specially designed for improved handling and greater comfort during work
- Just a few seconds are sufficient to accurately adjust the lanyard to the perfect work positioning point.
- An economical system: it is therefore no longer necessary to change the entire system when only the rope is unserviceable. The rope can be replaced by a user in the event of it being found to be unserviceable.
- Rope that lasts double the length of time: the new polyamide braided rope is twice as resistant compared to ordinary rope.

#### Features:

- 2 aluminium side plates
- ABS handle
- Aluminium compartment
- Stainless steel pivoting cam
- 100% polyamide braided rope, diameter 12mm, with or without protection sleeve
- Plastic sleeve protecting rope termination
- Optional repositionable locking screw







## Miller HandZup®, a wide range of products in response to every need:

| Rope length |     |     |     |     |      |      |      | Karabiner at rope termination | Protective sheath | Karabiner on<br>tensioner             |
|-------------|-----|-----|-----|-----|------|------|------|-------------------------------|-------------------|---------------------------------------|
| Ref.        | 2 M | 3 M | 4 M | 5 M | 10 M | 20 M | 30 M | O SK                          |                   | " " " " " " " " " " " " " " " " " " " |
| 10 320 97   | Х   |     |     |     |      |      |      | В                             | X                 | A                                     |
| 10 320 98   |     | Х   |     |     |      |      |      | В                             | х                 | Α                                     |
| 10 320 99   |     |     | Х   |     |      |      |      | В                             | х                 | Α                                     |
| 10 321 00   | Х   |     |     |     |      |      |      | В                             |                   | Α                                     |
| 10 321 01   |     | Х   |     |     |      |      |      | В                             |                   | Α                                     |
| 10 321 02   |     |     | Х   |     |      |      |      | В                             |                   | Α                                     |
| 10 322 40   |     |     |     | Х   |      |      |      | В                             |                   | Α                                     |
| 10 321 24   |     |     |     |     | Х    |      |      | -                             |                   | -                                     |
| 10 321 25   |     |     |     |     |      | Х    |      | -                             |                   | -                                     |
| 10 321 26   |     |     |     |     |      |      | Х    | -                             |                   | -                                     |
| 10 321 18   | Х   |     |     |     |      |      |      | D                             | х                 | D                                     |
| 10 321 19   |     | Х   |     |     |      |      |      | D                             | Х                 | D                                     |
| 10 321 20   |     |     | Х   |     |      |      |      | D                             | Х                 | D                                     |
| 10 321 21   | Х   |     |     |     |      |      |      | D                             |                   | D                                     |
| 10 321 22   |     | Х   |     |     |      |      |      | D                             |                   | D                                     |
| 10 321 23   |     |     | Х   |     |      |      |      | D                             |                   | D                                     |

Conforms to EN 358





B: Snap hook



D: Triple action oval karabiner

This new system is particularly recommended in the fields of telecommunications, transport and electricity.

A: 1/4 turn

karabiner





## Manyard® shock absorbing lanyard

To prevent the risk of a fall, it is made of rope or webbing and comes with a variety of connectors. With a maximum of 2m length, it includes a shock absorber to dissipate the forces on the body in case of a fall. Light and stretchable, Manyard® moves with you.

## STRETCHABLE SHOCK-ABSORBING LANYARD



For reduced tripping hazards **FEATURES & BENEFITS** 

#### Benefits: Reduces fall arrest forces

- A unique stretchable design for greater freedom of movement and safety.
- · When contracted, it greatly reduces the risk of tripping, snagging and dragging.
- Reliable visual inspection.
- Improved durability.

#### Features: Improves safety and reliability

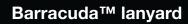
- · Heavy-duty tubular outer jacket acts as a protective sleeve.
- Polyamide webbing.
- Special woven shock-absorbing inner core.
- · Unique warning flag provides visual proof that a lanyard has been involved in a fall.
- The integrated red core becomes visible if the outer jacket is damaged or worn, and unfit for service.
- Hi-tech protective finish on the outer tubular jacket extends the service life of the Manyard®.
- Supplied with a pull away connection clip attaches to the harness to hold the Manyard® when not in use, thus limiting tripping risks.



| Ref.      | Length | Model | Connectors                                  |
|-----------|--------|-------|---|
| 10 053 24 | 1.5m   | ME86  | 65mm scaffold hook and galvanised connector |
| 10 053 25 | 2m     | ME86  | 65mm scaffold hook and galvanised connector |
| 10 053 17 | 1.5m   | ME82  | 2 galvanised connectors (CS20)              |
| 10 053 18 | 2m     | ME82  | 2 galvanised connectors (CS20)              |

Conforms to EN 355

| 10 053 26     1.5m     ME83     Snap hook and galvanised connector       10 053 27     2m     ME83     Snap hook and galvanised connector       10 304 90     1.2m     Forked Manyard®     -       10 139 70     1.5m     Forked Manyard®     65mm scaffold hooks and galvanised connector       10 134 91     2m     Forked Manyard®     65mm scaffold hooks and galvanised connector |   | Ref.      | Length | Model           | Connectors                                   |
|--|---|-----------|--------|-----------------|--|
| 10 304 90 1.2m Forked Manyard® - 10 139 70 1.5m Forked Manyard® 65mm scaffold hooks and galvanised connector   |   | 10 053 26 | 1.5m   | ME83            | Snap hook and galvanised connector           |
| 10 139 70 1.5m Forked Manyard® 65mm scaffold hooks and galvanised connector  |   | 10 053 27 | 2m     | ME83            | Snap hook and galvanised connector           |
| , ,  | 1 | 0 304 90  | 1.2m   | Forked Manyard® | -  |
| 10 134 91 2m Forked Manyard® 65mm scaffold hooks and galvanised connector  | 1 | 0 139 70  | 1.5m   | Forked Manyard® | 65mm scaffold hooks and galvanised connector |
|  | 1 | 0 134 91  | 2m     | Forked Manyard® | 65mm scaffold hooks and galvanised connector |



**Scaffolding lanyard:** The ultimate fall protection solution for scaffolders.

## BARRACUDA™









Combination of vertical anchorage clamp with a fall arrest lanyard in one compact unit 1.75m Scaffolding lanyard

## **FEATURES & BENEFITS**

## Benefits: Safer fall arrest system for vertical scaffolding tubes

- Elasticated lanyard reduces tripping and snagging hazards.
- · Enhances safety of workers erecting, dismantling and altering scaffolding.
- Allows anchorage above waist height reducing fall arrest forces and the risk of injury.
- One hand operation.

## Features: Gripping mechanism locks on the vertical tube under load

- Vertical scaffold clamp and screwgate karabiner.
- Integrated shock absorber.
- For tube diameter from 48.3 to 50mm.
- Polypropylene grip for easy handling.
- Weight: 1.2kg including lanyard.
- Hi-tech protective finish helps to extend the service life of the unit.
- Stainless steel connecting device for corrosion resistance.

| Ref. Housing | Description  |
|--------------|--|
| 10 104 70    | Barracuda™ 1.75m Elasticated Manyard®                    |
| 10 101 41    | Barracuda™ 1.75m Lanyard with shock absorber             |
| 10 086 71    | Adjustable Barracuda™ 1.2m – Lanyard with shock absorber |

Ref.: 10 086 71

Ref.: 10 104 70

Ref.: 10 101 41





# MILLER

## **Edge-tested**

Edge resistant lanyards & manyards: unique solutions to solve the technical problem posed by the breaking of fall protection equipment on edges! To prevent the risk of failure on an edge during work at height, requires a two-fold solution: fall arrest equipment has been developed with resistance to failure on edges whilst also absorbing the fall arrest forces.



# SHOCK ABSORBING LANYARD AND MANYARD®



Adjustable work positioning lanyard 1.5m - 2m:

## **FEATURES & BENEFITS**

## Benefits: Mechanical properties resistant against cutting and shearing

- Shock absorber reduces forces < 6kN.
- Reduces fall arrest forces.
- Stretchable: reduced product length, avoids the risk of tripping or snagging.
- Increased security & guaranteed reliability.
- Innovative technology.
- Elasticity and shearing resistance.

## Features: Patented core-yarn technology

- Identifiable green tubular webbing with a black stripe.
- Wrapped filament combining two types of thread: one shock absorbent and one abrasion resistant.
- Integrated shock absorber.
- Built-in warning flag.



## **EDGE-TESTED SHOCK ABSORBING MANYARD®**

| Ref.    | Length | Forked | Harness connector                           | Anchorage connector                         |
|---------|--------|--------|---|---|
| 1017916 | 2m     | -      | Aluminium Steel screwgate karabiner<br>CS20 | Scaffold hook, large opening aluminium 65mm |
| 1017918 | 2m     | -      | Steel screwgate karabiner<br>CS20           | Steel screwgate karabiner CS20              |
| 1028520 | 1.5m   | •      | 1/4 steel karabiner                         | Scaffold hook, large opening 55mm           |
| 1028521 | 2m     | •      | 1/4 steel karabiner                         | Scaffold hook, large opening 55mm           |
| 1028522 | 2m     | •      | 1/4 Zicral Alu. Screw karabiner             | <br>Scaffold hook, large opening 65mm       |
| 1028523 | 1.5m   | •      | 1/4 Zicral Alu. Screw karabiner             | Scaffold hook, large opening 65mm           |
| 1028524 | 2m     | •      | Aluminium screwgate<br>karabiner CS20       | GO60, large opening aluminium 60mm          |
| 1028525 | 1.5m   | •      | Aluminium screwgate<br>karabiner CS20       | GO60, large opening aluminium 60mm          |

Conforms to the standard EN 355: 2002

## D12 EDGE-TESTED KERNMANTEL SHOCK ABSORBING LANYARDS

| Ref.    | Length | Forked | Harness connector                     |     | Anchorage connector                              |
|---------|--------|--------|---------------------------------------|-----|--|
| 1016847 | 2m     | -      | Snap hook, small opening aluminium    | 200 | Scaffold hook, large opening aluminium           |
| 1016848 | 2m     | -      | Steel screwgate karabiner<br>CS20     |     | Steel screwgate karabiner CS20                   |
| 1016849 | 2m     | -      | Steel screwgate karabiner<br>CS20     |     | Scaffold hook, large opening aluminium 65mm      |
| 1016850 | 1.5m   | •      | Steel screwgate karabiner CS20        |     | 2 x Scaffold hook, large opening aluminium 65mm  |
| 1018035 | 1.5m   | •      | Aluminium screwgate karabiner<br>CS20 | -   | 2 x Scaffold hook, large opening aluminium 110mm |





## Lanyards technical guide

| MODEL          | STANDARDS   | WEIGHT | WEBBING | ROPE | SIMPLE   | FORKED   | 1 M     | 1.2 M   | 1.5 M   | 1.8 M   | 2 M     | USER           | ANCHORAGE         |
|----------------|-------------|--------|---------|------|----------|----------|---------|---------|---------|---------|---------|----------------|-------------------|
|                |             |        |         | e.   | JOCK ARS | ORBING L | ANVARD  | AND MAN | VADD®   |         |         | CONNECTOR      | CONNECTOR         |
| AMORSTOP       | EN 355      | 400g   |         | •    | •        | ONDING E | ANTAND  | AND WAN | 1003220 |         |         | None           | None              |
| AMORSTOP       | EN 355      | 625g   |         | •    | •        |          |         |         | 1003216 |         |         | CS20           | CS20              |
| ME54           | EN 355      | 940g   |         | •    | •        |          |         |         | 1005278 |         |         | CS20           | Scaff hook 55mm   |
| ME53           | EN 355      | J 129  |         | •    | •        |          |         |         | 1005290 |         |         | CS20           | Snap hook         |
| Titan™ B       | EN 355      | 400g   |         | •    | •        |          |         |         | 1000200 | 1008275 |         | Thimbled loops | Absorber          |
| ME51           | EN 355      | 1,030g |         | •    | •        |          |         |         |         | 1000210 | 1002906 | CS20           | Scaff hook 65mm   |
| ME52           | EN 355      | 770g   |         | •    | •        |          |         |         |         |         | 1002907 | CS20           | CS20              |
| ME53           | EN 355      | 750g   |         | •    | •        |          |         |         |         |         | 1004578 | CS20           | Snap hook         |
| ME54           | EN 355      | 980g   |         | •    | •        |          |         |         |         |         | 1004591 | CS20           | Scaff hook 55mm   |
| Titan™ B1      | EN 355      | 637g   |         | •    | •        |          |         |         |         |         | 1008276 | CS20           | Snap hook         |
| Titan™ C3      | EN 355      | 870g   |         | •    | •        |          |         |         |         |         | 1008281 | CS20           | Scaff hook 65mm   |
| Titan™A2       | EN 355      | 930g   | •       |      |          |          |         |         | 1014330 |         | 1000201 | CS20           | CS20              |
| ME00           | EN 355      | 340g   | •       |      | •        |          |         |         | 1011000 | 1002901 |         | No             | No                |
| ME02           | EN 355      | 680g   | •       |      | •        |          |         |         |         | 1002001 | 1002903 | CS20           | CS20              |
| ME03           | EN 355      | 510g   | •       |      | •        |          |         |         |         |         | 1002904 | Triple action  | Triple action     |
| ME06           | EN 355      | 900g   | •       |      | •        |          |         |         | 1005279 |         | 1004579 | CS20           | Scaff hook 65mm   |
| Titan™ A3      | EN 355      | 760g   | •       |      | •        |          |         |         | 1016096 | 1015140 | 1013430 | CS20           | Scaff hook 65mm   |
| Titan™ A2      | EN 355      | 760g   | •       |      | •        |          |         |         | 1014330 | 1010110 | 1010100 | CS20           | Scaff hook 65mm   |
| Forked lanyard | EN 355      | 720g   | •       |      |          | •        | 1003232 |         | 1011000 |         |         | 1/4 Turn       | 2xG060            |
| Forked lanyard | EN 355      | 1,240g | •       |      |          | •        | 1003233 |         |         |         |         | 1/4 Turn       | 2xScaff hook 65mm |
| Forked lanyard | EN 355      | 850g   |         |      |          | •        | 1000200 |         | 1005131 |         |         | 1/4 Turn       | 2xG060            |
| Forked lanyard | EN 355      | 640g   | •       |      |          | •        |         |         | 1007013 |         |         | 1/4 Turn       | Twist lock        |
| Forked lanyard | EN 355      | 440g   | •       |      |          | •        |         |         | 1007015 |         |         | No             | No                |
| Forked lanyard | EN255       | 1,010g | •       |      |          | •        |         |         | 1010206 |         |         | 1/4 Turn       | 2xScaff hook 65mm |
| Forked lanyard | EN 355      | 1,500g | •       |      |          | •        |         |         |         |         | 1004590 | CS20           | 2xScaff hook 65mm |
| Forked lanyard | EN 355      | 1,500g | •       |      |          | •        |         |         | 1006675 |         |         | CS20           | 2xScaff hook 65mm |
| Forked lanyard | EN 355      | 940g   | •       |      |          | •        |         |         |         |         | 1002902 | 1/4 Turn       | 2xCS20            |
| Forked lanyard | EN 355      | 922g   | •       |      |          | •        |         |         |         |         | 1003235 | 1/4 Turn       | 2xG060            |
| Titan™         | EN 355      | 1,550g | •       |      |          | •        |         |         |         |         | 1013431 | CS20           | 2xScaff hook 65mm |
| Edge tested    | EN 355      | 1,077g |         | •    | •        |          |         |         |         |         | 1016847 | SnapHook       | Scaff hook 65mm   |
| Edge tested    | EN 355      | 815g   |         | •    | •        |          |         |         |         |         | 1016848 | CS20           | CS20              |
| Edge tested    | EN 355      | 1,096g |         | •    | •        |          |         |         |         |         | 1016849 | CS20           | Scaff hook 65mm   |
| Edge tested    | EN 355      | 1,480g |         | •    |          | •        |         |         | 1016850 |         |         | CS20           | 2xScaff hook 65mm |
| Edge tested    | EN 355      | 2,600g |         | •    |          | •        |         |         | 1018035 |         |         | CS20           | 2xG0100           |
| Atex           | EN 355/ATEX | ,      | •       |      |          | •        |         |         | 1015859 |         |         | CS20           | 2xG060            |



## Lanyards technical guide



| MODEL                                  | STANDARDS                           | WEIGHT | WEBBING | ROPE | SIMPLE   | FORKED    | 1 M                | 1.2 M    | 1.5 M   | 1.8 M              | 2 M                | USER<br>CONNECTOR | ANCHORAGE<br>CONNECTOR |
|--|-------------------------------------|--------|---------|------|----------|-----------|--------------------|----------|---------|--------------------|--------------------|-------------------|------------------------|
|  | STRETCHABLE SHOCK ABSORBING LANYARD |        |         |      |          |           |                    |          |         |                    |                    |                   |                        |
| Manyard® ME86                          | EN 355                              | 950g   | •       |      | •        |           |                    |          | 1005324 |                    |                    | CS20              | Scaff hook 65mm        |
| Manyard® ME82                          | EN 355                              | 620g   | •       |      | •        |           |                    |          | 1005317 |                    |                    | CS20              | CS20                   |
| Manyard® ME83                          | EN 355                              | 680g   | •       |      | •        |           |                    |          | 1005326 |                    |                    | CS20              | Snap Hook              |
| Manyard® ME86                          | EN 355                              | 980g   | •       |      | •        |           |                    |          |         |                    | 1005325            | CS20              | Scaff hook 65mm        |
| Manyard® ME82                          | EN 355                              | 740g   | •       |      | •        |           |                    |          |         |                    | 1005318            | CS20              | CS20                   |
| Manyard® ME83                          | EN 355                              | 780g   | •       |      | •        |           |                    |          |         |                    | 1005327            | CS20              | Snap hook              |
| Barracuda                              | EN 355/EN795                        | 1,310g | •       |      | •        |           |                    |          |         | 1010470<br>(1.75m) |                    | CS20              | Barracuda              |
| Edge tested                            | EN 355                              | 1,260g | •       |      | •        |           |                    |          |         |                    | 1017916            | CS20              | Scaff hook 65mm        |
| Edge tested                            | EN 355                              | 920g   | •       |      | •        |           |                    |          |         |                    | 1017918            | CS20              | CS20                   |
| Barracuda                              | EN 355/EN795                        | 1,215g |         | •    | •        |           | 1008671<br>(1.20m) |          |         |                    |                    | CS20              | Barracuda              |
| Barracuda                              | EN 355/EN795                        | 1,195g |         | •    | •        |           | (1.2011)           |          |         | 1010141<br>(1.75m) |                    | CS20              | Barracuda              |
| Twin Edge tested lanyard               | EN 355                              | 1,680g | •       |      |          | •         |                    |          |         | 1028521            |                    | CS20              | 2xScaff hook 55mm      |
| lanyaru                                |                                     |        |         |      | STRETCHA | ABLE SHOO | CK ABSOR           | BING LAN | YARD    |                    |                    |                   |                        |
| Twin Edge tested lanyard               | EN 355                              | 1,580g | •       |      |          | •         |                    |          |         |                    | 1028522            | CS20              | 2xScaff hook 65mm      |
| Twin Manyard®                          | EN 355                              | 1,700g |         |      |          | •         |                    | 1030490  |         |                    |                    |                   |                        |
| Twin Manyard®                          | EN 355                              | 1,700g | •       |      |          | •         |                    |          | 1013970 |                    |                    | CS20              | 2xScaff hook 65mm      |
| Twin Manyard®                          | EN 355                              | 1,900g |         |      |          | •         |                    |          |         |                    | 1013491            | CS20              | 2xScaff hook 65mm      |
| ······································ | 2.17 000                            | 1,0009 |         |      |          |           | NT LANYA           | RD       |         |                    | 1010101            | 3323              | ZAGGAN NOON GOMM       |
| MD00                                   | EN 354                              | 300g   |         | •    | •        | 112011111 | 1002881            |          |         |                    |                    | Spliced loops     | CS20                   |
| MD02                                   | EN 354                              | 480g   |         | •    | •        |           | 1002883            |          |         |                    |                    | CS20              | CS20                   |
| Titan™                                 |                                     |        |         | •    | -        |           |                    |          |         |                    |                    |                   |                        |
|  | EN 354                              | 150g   |         |      | -        |           | 1008270            |          | 1004711 |                    |                    | Thimbled loops    | Thimbled loops         |
| MD02                                   | EN 354                              | 530g   |         | •    | •        |           |                    |          | 1004711 |                    |                    | CS20              | CS20                   |
| Titan™                                 | EN 354                              | 190g   |         | •    | •        |           |                    |          | 1008271 | 4000070            |                    | Thimbled loops    | Thimbled loops         |
| Titan™                                 | EN 354                              | 335g   |         | •    | •        |           |                    |          |         | 1008273            | 4000000            | Thimbled loops    | Thimbled loops         |
| MD02                                   | EN 354                              | 400g   |         | •    | •        |           |                    |          |         |                    | 1002882            | Spliced loops     | CS20                   |
| MD02                                   | EN 354                              | 580g   |         | •    | •        |           |                    |          |         |                    | 1002884            | CS20              | CS20                   |
| Titan™                                 | EN 354                              | 275g   |         | •    | •        |           |                    |          |         | 1008272            |                    | Thimbled loops    | Thimbled loops         |
|  |                                     |        |         |      | W        | ORK POSIT | IONING LA          | NYARD    |         |                    |                    |                   |                        |
| Titan™                                 | EN 358                              | 320g   |         | •    | •        |           |                    |          |         | 1008285            |                    | No                | No                     |
| MC03                                   | EN 358                              | 940g   |         | •    | •        |           |                    |          |         |                    | 1002878<br>1002879 | Spliced loops     | Snap hook              |
| MC03                                   | EN 358                              | 1,130g |         | •    | •        |           |                    |          |         |                    | (3m)<br>1002880    | Spliced loops     | Snap hook              |
| MC03                                   | EN 358                              | 1,280g |         | •    | •        |           |                    |          |         |                    | (4m)               | Spliced loops     | Snap hook              |
| Reglex 3000 + rope protector           | EN 358                              | 1,170g |         | •    | •        |           |                    |          |         |                    | 1003110            | Spliced loops     | Snap hook              |
| Reglex 3000 + rope protector           | EN 358                              | 1,308g |         | •    | •        |           |                    |          |         |                    | 1003111<br>(3m)    | Spliced loops     | Snap hook              |
| Reglex 3000 + rope protector           | EN 358                              | 1,436g |         | •    | •        |           |                    |          |         |                    | 1003112<br>(4m)    | Spliced loops     | Snap hook              |
| Reglex 3000                            | EN 358                              | 1,080g |         | •    | •        |           |                    |          |         |                    | 1003104            | Spliced loops     | Snap hook              |
| Reglex 3000                            | EN 358                              | 1,230g |         | •    | •        |           |                    |          |         |                    | 1003105<br>(3m)    | Spliced loops     | Snap hook              |
| Reglex 3000                            | EN 358                              | 1,380g |         | •    | •        |           |                    |          |         |                    | 1003106<br>(4m)    | Spliced loops     | Snap hook              |
| Titan™                                 | EN 358                              | 600g   |         | •    | •        |           |                    |          |         |                    | 1008286            | Spliced loops     | Snap hook              |
| Titan™                                 | EN 358                              | 400g   |         | •    | •        |           |                    |          |         |                    | 1008287            | Spliced loops     | Twist lock             |
| Titan™                                 | EN 358                              | 450g   |         |      |          |           |                    |          |         |                    | 1008288            | CS20              | CS20                   |





# Rope and Cable Fall Arresters

Light, industry-proven, stainless steel automatic or manual fall arresters, rope grabs and cable grabs prevent workers from falling during ascent or descent for both vertical and horizontal applications. Particularly useful on sloping roofs where retractable lifelines may react too slowly. In the event of a fall or slip, they lock onto the rope or cable, arresting the fall immediately.

## **STICK RUN**









Rope grab for vertical, horizontal and sloping applications

#### **FEATURES & BENEFITS**

#### Benefits:

- Easy to use.
- Automatic mode for vertical use.
- Manual mode for work positioning in horizontal and sloping use.
- Stick run glides freely over the line without manual intervention.

#### Features:

- Rope grab in stainless steel.
- Suitable for 10/12mm or 14/16mm rope.
- Automatic locking for vertical use.
- Weight: 0.62kg.
- Manual locking position for horizontal work and restraint purposes, repositioning manually along rope.



| Ref.      | Model | Ø rope  |
|-----------|-------|---|
| 10 076 40 | MF51  | 10mm/12mm                                     |
| 10 028 75 | MF51  | 14mm/16mm                                     |
| 10 076 18 | MF52  | 10mm/12mm + 0.3m lanyard and connector (CS20) |
| 10 028 76 | MF52  | 14mm/16mm + 0.3m lanyard and connector (CS20) |

Conforms to EN 353-2

## **ROCKER ROPE LOCK**









Automatic rope grab features work positioning function

## **FEATURES & BENEFITS**

- Fall arrester and work positioning device.
- · Versatile and lightweight fall arrest system.
- Designed for use in conjunction with a manual descender or technical rope access or rescue
- Compact and easy-to-use.
- Locking catch can be activated to hold the Rocker in position on the rope.

- Easy-to-use automatic rope grab (EN 353-2).
- Manual rope positioning (EN 353-2).
- · Length adjuster for positioning lanyard.
- Tensioning device for horizontal lifeline.
- Pulley blocking device.
- Suitable for 10/12mm rope.
- Weight: 0.17kg.



Rocker is sold without a rope

| Ref.      | Colour |
|-----------|--------|
| 10 070 31 | Purple |
| 10 102 21 | Black  |

CE certified Rope grab: EN 353-2; Work positioning EN 358 recommended for use with Miller Kernmantel rope. (see p 363)

## ALTOCHUT











Rope grab for vertical use

## **FEATURES & BENEFITS**

#### Benefits:

- Prevents workers from falling during ascent or descent.
- Glides freely along the rope without manual
- · Offers a more comfortable attachment to the front anchorage point on the harness.

| Ref.      | Ø rope    |
|-----------|-----------|
| 10 029 33 | 10mm/12mm |
| 10 029 37 | 14mm/16mm |

Conforms to EN 353-2

- Rope grab in stainless steel.
- Suitable for 10/12mm or 14/16mm ropes.
- Weight: 0.5kg.

| Ref.      | Ø rope  |
|-----------|---|
| 10 030 64 | 10mm/12mm + 0.3m lanyard and connector (CS20) |
| 10 030 71 | 14mm/16mm + 0.3m lanyard and connector (CS20) |





## Rope and Cable Fall Arresters

## TITAN™ ROPE GRAB



Rope grab for both vertical and horizontal applications. Automatic Rope grab with anchorage line from 10m to 30m.

#### **FEATURES & BENEFITS**

#### Benefits:

- Automatically locks onto the rope in the event of a fall.
- Moves on the rope without manual intervention.
- 0.3m lanyard and connector facilitates attachment to harness.
- Easy-to-use design with hands-free operation for maximum freedom of movement.

| Ref.      | Length | Description |
|-----------|--------|-------------|
| 10 111 90 | 10m    | Rope grab   |
| 10 117 00 | 15m    | Rope grab   |
| 10 111 91 | 20m    | Rope grab   |
| 10 111 92 | 30m    | Rope grab   |

CE Certified and conforms to EN 353-2

## Features:

- Durable and corrosion-resistant stainless steel construction.
- · Lightweight.
- Includes rope anchorage line.
- Diameter 12mm

| Ref.      | Length Description |                                   |
|-----------|--------------------|-----------------------------------|
| 10 113 44 | 10m                | Anchorage line only diameter 12mm |
| 10 113 45 | 20m                | Anchorage line only diameter 12mm |
| 10 113 46 | 30m                | Anchorage line only diameter 12mm |



## **ANCHORAGE LINE**













Suitable for vertical, horizontal and sloping applications.

## **FEATURES & BENEFITS**

## Benefit:

• Can be installed by means of the telescopic pole and anchorage connector.

- Twisted polyamide rope or kernmantel rope.
- Supplied with galvanised connector and counterweight.
- Anchorage line is suitable for use with a 10/12mm or 14mm/16mm rope grab.
- · Available in various lengths.

| Length | Twisted polyamide rope,<br>diam. 14mm with<br>counterweight and<br>screwgate karabiner | kernmantel rope, diam.<br>10.5mm with<br>counterweight and<br>screwgate karabiner | Kernmantel rope,<br>diam. 11mm, white | Kernmantel rope,<br>diam. 11mm, black | Nylon rope,<br>diam.12mm with<br>2 stitched splices |
|--------|--|---|---------------------------------------|---------------------------------------|---|
| 10m    | 1002891  | 1007613   | 3                                     |                                       | 8   |
| 20m    | 1002892  | 1007614   |                                       |                                       |   |
| 25m    | 2  | #   |                                       |                                       | 1011726   |
| 30m    | 1002893  | 1007615   |                                       |                                       |   |
| 35m    | 3  | **  |                                       |                                       | 1011723   |
| 40m    | 1002894  | 1007616   | 3                                     |                                       | 1   |
| 45m    | N.   | 100   | 3                                     |                                       | 1011724   |
| 50m    | 1002895  | 1007617   | 1010185                               |                                       | 199   |
| 60m    | P  |   |                                       |                                       |   |
| 100m   | 3  | **  |                                       | 1010187                               | 8   |
| 200m   | 8  | 2   | 1010182                               |                                       |   |





(A)



# Connectors

## **SCREW GATE KARABINERS**





- · Opening: 17mm.
- Resistance: 25kN.
- Dim.:104 x 58mm.
- Weight: 165g.
- Multi-purpose karabiner.

Ref 10 189 60

Conforms to Standard: EN 362 Class B



CS20 ALU

- · Material: Aluminium.
- Opening: 17mm.
- Resistance: 23kN.
- Dim.: 111 x 60mm.
- · Weight: 80g.
- Multi-purpose karabiner.

Ref 10 092 76

Conforms to Standard: EN 362 Class B



(A)

- Material: Aluminium.
- · Opening: 19mm.
- Resistance: 30kN.
- Dim.: 110 x 65mm.
- · Weight: 90g.
- Pear-shaped for easier belay.

Ref 10 028 33

Conforms to Standard: EN 362 Class B



(A)



- Opening: 21mm.
- Resistance: 22 kN.
- Dim.:123 x 72mm.
- · Weight: 93g.
- Multi-purpose karabiner.

Ref 10 189 61

Conforms to Standard: EN 362 Class B

## TWIST LOCK KARABINERS



## **CS20**

- Material: Steel.
- · Opening: 17mm.
- · Resistance: 25kN.
- Dim.: 104 x 58mm.
- Weight: 172g.



Conforms to Standard: EN 362 Class B



## **ZICRAL**

- · Material: Aluminium.
- Opening: 16mm.
- · Resistance: 28kN.
- Dim.: 107 x 61mm.
- · Weight: 75g.
- Shape facilitates belay technique.

Ref 10 189 68

Conforms to Standard: EN 362 Class B



**ZICRAL 2** 

(A)

(A)

- Material: Aluminium. • Opening: 18mm.
- Resistance: 23kN.
- Dim.: 111 x 60mm.
- · Weight: 90g.



Conforms to Standard: EN 362 Class B



SUPER-TOP



- Material: Aluminium.
- Opening: 20mm.
- Resistance: 22kN.
- Dim.: 123 x 70mm.
- Weight: 90g.



Conforms to Standard: EN 362 Class A/T

# by Honeywell

## **Connectors**



## **DOUBLE ACTION KARABINERS AND HOOKS**





- Opening: 28mm.
- · Resistance: 25kN. • Dim.: 159 x 74mm.
- Weight: 130g.



Conforms to Standard: EN 362 Class T



**GO**85

- Material: Steel.
- Opening: 85mm.
- Resistance: 23kN.
- Dim.: 332 x 160mm.
- Weight: 840g.

Ref 10 092 58

Conforms to Standard: EN 362 Class A



**GO60** 



- · Material: Aluminium.
- Opening: 60mm.
- Resistance: 23kN.
- Dim.: 240 x 113mm.
- Weight: 244g.
- Self-locking opening and rope latch.



Conforms to Standard: EN 362 Class A



GO100

- Material: Aluminium.
- Opening: 110mm.
- Resistance: 27kN.
- Dim.: 350 x 165mm.
- Weight: 900g.

Ref 10 189 76

Conforms to Standard: EN 362 Class A



**SNAP HOOK** 



- Material: Steel. • Opening: 18mm.
- · Resistance: 25kN.
- Dim.: 132 x 64mm.
- Weight: 240g.



Conforms to Standard: EN 362 Class T



ML04

- Material: Aluminium.
- Opening: 63 mm.
- Resistance: 22kN.
- Dim.: 255 x 120 mm.
- Weight: 470g.

Ref 10 189 77

Conforms to Standard: EN 362 Class A





- Material: Steel.
- Opening: 55mm.
- Resistance: 23kN.
- Dim.: 218 x 115mm.
- Weight: 450g.



Conforms to Standard: EN 362 Class A

## TRIPLE ACTION KARABINERS



## **FRELON**

- · Material: Aluminium.
- Opening: 22mm.
- Resistance: 22kN.
- Dim.:117 x 77mm.
- Weight: 100g.
- · Pear-shaped for easier belay.
- Wide opening for several ropes.

10 189 71

Conforms to Standard: EN 362 Class B



**CIGALE** 



- Material: Aluminium.
- Opening: 20mm.
- Resistance: 24kN. • Dim.: 110 x 64mm.
- Weight: 80g.
- · Aluminium metal D-ring. Round thread for easier insertion into the connecting parts.



Conforms to Standard: EN 362 Class B





One of the most important aspects of a fall protection system, is the selection of a reliable anchorage point (A) to ensure full safety. This shall:

- have a static resistance > 10kN.
- be located at a safe distance above any lower obstacles.
- be as vertical as possible to the work station to avoid the swing effect.

## WEBBING ANCHORAGE SLING



Allows a reliable connection point which adapts to a wide range of anchorage points.

## **FEATURES & BENEFITS**

# Benefits: The anchorage sling provides a secure anchorage point for the fall arrest device

- Easy to install.
- Lightweight.
- Reliable.
- High breaking strength.
- Sheathed end of sling to resist to abrasion from connector.

| Ref.      | Length |
|-----------|--------|
| 10 029 16 | 0.6m   |
| 10 029 17 | 0.8m   |

Conforms to EN795b

#### Features:

- 23mm yellow polyester webbing.
- Breaking strength: > 15KN.
- Coloured coded to differentiate lengths.
- Conforms to EN795b2.

| Ref.      | Length |
|-----------|--------|
| 10 032 45 | 1.0m   |
| 10 029 18 | 1.2m   |
| 10 029 19 | 1.5m   |







Webbing anchorage sling.

#### **FEATURES & BENEFITS**

# Benefits: The anchorage sling provides a secure anchorage point for the fall arrest device

- High breaking strength.
- Lightweight.
- Safe and easy-to-install anchorage point.

| Ref.      | Length |
|-----------|--------|
| 10 083 60 | 0.6m   |
| 10 083 61 | 0.8m   |

Conforms to EN795b & EN566

- 20mm red and black polyamide webbing.
- Breaking strength: > 10kN.

| Ref.      | Length |
|-----------|--------|
| 10 083 62 | 1.0m   |
| 10 083 63 | 1.2m   |
| 10 083 64 | 1.5m   |





## **MJ51 STEEL SLING**



## **FEATURES & BENEFITS**

## Benefits: Easy-to-install

- Large opening for anchorage to girders,
- High breaking strength.

| Ref.      | Length |
|-----------|--------|
| 10 178 22 | 0.66m  |
| 10 028 97 | 1m     |
| 10 031 78 | 2m     |
| 10 031 79 | 3m     |

Conforms to EN 795b

## Features: Galvanised steel

- 6.3mm galvanised steel with protective plastic sheath.
- Breaking strength: >15kN.



## **GIRDER GRIP MJ52**



#### **FEATURES & BENEFITS**

## Benefit: Easy to use and open

• Lightweight.

| Ref.      | Ø     |
|-----------|-------|
| 10 189 79 | 75mm  |
| 10 189 80 | 100mm |
| 10 189 81 | 140mm |

Conforms to EN 362 Class A

## Features: Stainless steel

- 75mm to 140mm opening cable girder grip.
- Breaking strength >30kN.



## **ANCHORAGE PLATE**



## **FEATURES & BENEFITS**

#### Benefit:

• Fall indicator allows the device to be checked easily.



Conforms to EN 795 Class A1

## Features: Stainless steel

- Fixing point diameter: Ø 13mm.
- Maximum load before deformation: 300kN.
- Weight: 0,062kg.
- Breaking strength: >20kN.



## **BEAM GLIDE**





## **FEATURES & BENEFITS**

## Benefits:

- Fully adjustable beam anchorage device.
- Suitable for beam widths from 75mm to 360mm.

| Ref.      | Size   |
|-----------|--------|
| 10 076 10 | Unique |

Conforms to EN 795b

- Aluminium construction.
- Breaking strength: 22kN.
- Weight: 1.4kg.







## **CROCHEVIT JIRAF**



#### **FEATURES & BENEFITS**

## Benefits: Allows an anchor point to be installed far overhead

- Large opening aluminium connector.
- Used in conjunction with a telescopic pole.

10 028 99

Conforms to EN 795 Class B

## Features:

- Aluminium connector.
- Opening 150mm.
- Weight 1.3kg





## **GO100 JIRAF**



#### **FEATURES & BENEFITS**

## Benefits: Easy-to-fit anchorage connector for use with telescopic pole

- · Opening to suit scaffolding tubes.
- Used in conjunction with a telescopic pole.

Ref 10 029 81

Conforms to EN 795 Class B

## Features:

- · Aluminium connector.
- · Opening: 110mm.
- Weight 1.48kg



## **GO65 JIRAF**





## **FEATURES & BENEFITS**

## Benefits: Easy-to-fit anchorage connector for use with telescopic pole

- Opening to suit scaffolding tubes.
- Used in conjunction with a telescopic pole.

Ref 10 029 00

Conforms to EN 795 Class B

#### Features:

- Aluminium connector.
- Opening: 65mm.
- Weight 1.05kg



## **CROCHEVIT - MJ50**



## **FEATURES & BENEFITS**

## Benefits: Easy-to-install

- Large opening ideal for anchorage to girders,
- High breaking strength.

Ref. 10 028 96

Conforms to EN 795b Class B

- · Aluminium connector.
- Opening: Ø 150mm (or 120 x 120mmsquare structure).
- Weight 1.32kg
- Breaking strength: >22kN.





## SERPENT TEMPORARY **HORIZONTAL LIFELINE**



The durable solution for construction

#### **FEATURES & BENEFITS**

#### Benefits:

- Offers a large working area.
- Fast and easy to install.
- For use by one or 2 workers.
- Maximum working length 20 metres.
- Fixing to either permanent anchorage points or temporary webbing anchorage slings.

| Ref.      | Size |
|-----------|------|
| 10 076 10 | 20m  |

Conforms to EN795b

#### Features:

- Durable braided rope with two galvanised
- · Supplied with length adjuster, karabiners, end stop and two 1.5m webbing anchorage slings.
- Rope in polyester Ø14mm.
- · Connectors in galvanised steel.





## WEBBING MOBILE LIFELINE WITH ANCHORAGE SLING



Webbing Temporary Horizontal Lifeline

## **FEATURES & BENEFITS**

## Benefits:

- Offers a large working area.
- · Fast and easy to install.
- For use by one or 2 workers.
- Maximum working length 20 metres.
- Fixing to either permanent anchorage points or temporary webbing anchorage slings.

| Ref.      | Size |
|-----------|------|
| 10 111 60 | 20m  |

Conforms to EN795b

## Features:

- Durable webbing with 2 karabiners, swivel and fall indicator.
- Supplied with length adjuster, karabiners, end stop and 21m webbing anchorage slings.
- Webbing polyester 35mm.
- Connectors in galvanized steel.
- · Delivered in a bag.

## TELESCOPIC POLE





Fixing an anchorage point from a distance

## **FEATURES & BENEFITS**

## Benefits: Light-weight

- Compact for easy transportation
- Easy vertical deployment

#### Features MK00:

- 3 elements for easier deployment from the ground
- Retracted length: 2.6m

| Ref.      | Extended Length |
|-----------|-----------------|
| 10 028 98 | 7.5m            |

Conforms to FN795b





• 5 elements for easier deployment from the ground

| Ref.      | Extended Length | Retracted Length |
|-----------|-----------------|------------------|
| 10 066 29 | 6m              | 1.55m            |
| 10 029 79 | 9.40m           | 2.44m            |







## **SÖLL ANCHORAGES**



Screw-fix eyes with EN 795-A\* and EN50308 certification

#### **FEATURES & BENEFITS**

#### Benefits:

- Easy to install\* in threaded holes or with self-locking nuts
- Rated for two persons or 22kN

| Ref.      | Description         |
|-----------|---------------------|
| 10 315 82 | Söll Anchorage Ring |
| 10 304 91 | Söll Eye Anchor     |
| 10 315 84 | Söll Turn Eye       |

#### Features: Load-indicating eyes

- High-visibility EN50308 yellow colour
- Corrosion-resistant stainless steel
- Swivel anchorage eye with a unique S-shaped profile
- Safely deforms under excessive load, giving a clear indication of the need for replacement after a fall

| Ref.      | Description        |
|-----------|--------------------|
| 10 315 81 | Söll Anchorage Eye |
|           |                    |

\* EN 795-A anchorages shall be installed by a competent engineer in accordance with approved national standards, and inspected at least once every 12 months (6 months if used for work positioning or suspension).





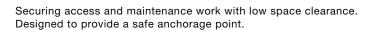
82 Ref.: 10 304 91





Ref.: 10 315 81

## **DURAHOIST™ TOTEM ANCHORAGE POST**



## FEATURES & BENEFITS

## Benefits: Work safely in factor 1

- Removable post.
- Light and very easy to transport with 2 handles.
- Easy to set up in the base plate.
- Insertion indicator red mark to ensure correct installation.
- Fall factor 1 anchorage point at shoulder level, reduces fall clearance.

#### Features: Lightweight and resistant

- Aluminium post
- "S" anchorage with fall indicator deformed in case of a fall.
- 2 operators maximum on each S up to 4 operators.
- · Light: only 7.5kg.

## Stainless steel base plate

- $\,{}^{\bullet}$  4 anchorage points on the base plate and 2 operators maximum on each anchorage point.
- Screwed with welded threaded rod.
- Weight: 13kg.

| Ref.      | Description    |
|-----------|----------------|
| 10 295 02 | Aluminium Post |

Conforms to EN795 class A-1, when used with the plate

| Ref.      | Description                         |
|-----------|-------------------------------------|
| 10 295 03 | Stainless steel base plate          |
| 10 297 20 | Accessory, Totem transportation bag |

Conforms to EN795 class A-1







# Rescue & Evacuation Technical access: ASCENDER

## **ROPE ASCENDER**





#### **FEATURES & BENEFITS**

#### Benefits:

- · Ascenders are designed to connect easily onto the rope with one hand.
- · Comfortable and efficient grip for improved climbing control.

| Ref.      | Description         |
|-----------|---------------------|
| 10 070 41 | Right-hand ascender |
| 10 073 93 | Left hand ascender  |

Conforms to EN 567

#### Features:

- Ideally used in conjunction with a foot-loop.
- The manual ascender incorporate a lightweight alloy handle.
- Enables the operator to ascend a fixed rope.
- For rope diameters 10-13mm.
- Weight 0.21kg.



## **CAM-CLEAN ASCENDER**







## Benefits: Increase safety

- Used in conjunction with the rope ascender.
- Chest ascender designed to hold the operator in a comfortable upright position.

| Ref.      | Size   |
|-----------|--------|
| 10 042 54 | Unique |

Conforms to FN 567

## Features:

- Rope diameter: 8mm to 12mm.
- · Anti return system.
- · Weight: 0.16kg.

## SHORCO SLING AND FOOT LOOP SET







## **FEATURES & BENEFITS**

## Benefits: Foot lock technique to climb

- Used in conjunction with the Rope Ascender and Cam-Clean.
- Shorco Sling and Foot loop set allows a fixed rope to be climbed by using the Foot Lock Technique.

| Ref.      | Size   |
|-----------|--------|
| 10 101 68 | Unique |

## Feature:

· Polyester webbing with karabiners.

## **ABS LOCK**







## **FEATURES & BENEFITS**

## **Benefit: Practical**

• Used to belay from the ground the person equipping a structure with temporary anchor points.

| Ref.      | Size   |
|-----------|--------|
| 10 042 10 | Unique |

- Automatic and dynamic belay system.
- To use with 9mm to 11mm rope.
- Weight: 0.103kg.







## Rescue & Evacuation - Technical access: descender

## INDY DESCENDER





#### **FEATURES & BENEFITS**

## Benefits: The operator's safety is guaranteed

- Ergonomic and easy-to-use.
- Descent is activated and controlled through pressure onto the handle.
- Descent stops if the pressure on the handle is too weak or strong.

| Ref.      | Size   |
|-----------|--------|
| 10 320 22 | unique |

Conforms to EN 341 Class A and EN12841/C

#### Features: Aluminium & stainless steel

- Anti-panic auto-braking system.
- Maximum descent speed: 2m/s.
- Suitable for 10-13mm rope.
- Weight: 0.49kg.



## PROALLP TECH DESCENDER





#### **FEATURES & BENEFITS**

## Benefit: Control and versatility

• Ideal for technical access, rescue and intervention.

| Ref.      | Colour |
|-----------|--------|
| 10 070 57 | Purple |
| 10 102 22 | Black  |

Conforms to PR EN 12841C

## Features: Screw and autolock controlled rate rope descender

- · Light alloy material.
- Designed to hold up to two people (max.250kg) in a rescue scenario.
- Option of both screw and auto-lock controlled-rate rope descent.
- Includes ascender, belay brake, tensioned line brake and hauling system brake function.
- Suitable for 10-13mm kernmantel rope.
- · Weight: 0.62kg.



## FIG 8 DESCENDER







## Benefit:

Lightweight

| Ref.      | Size   |
|-----------|--------|
| 10 102 20 | Unique |

- Aluminium.
- Rescue descender for 9-12mm braided rope.
- Weight: 0.13kg.





## Rescue & Evacuation - Descent devices



## MILLER SAFESCAPE® ELITE







Rescue and Descent device for emergency situations. Ideal for rescue and descent - 20m to 500m rope.

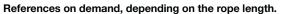
#### **FEATURES & BENEFITS**

## Benefits: Ensure the safety of the people working at height

- Enhanced safety in the harshest conditions.
- Greater cost-savings: recertification required only after seven years.
- · Lightweight and compact design.
- Optional hoisting wheel and/or ladder bracket
- · Global solution-meets all applicable safety standards worldwide.

## Material: Engineered to comply with the most rigorous testing methods

- · High-quality anodised aluminium housing.
- · Centrifugal brake controls the descent and reduces vibration.
- Descent loads possible from 30kg 250kg (2 people).
- Rope lenght 20-200 m as standard descent capacity (up to 500 m on request).
- Descent is quick (1m/s) and smooth.
- Use in an emergency by 2 people weighing



Please contact your customer service for more information

- => without handwheel.
- => with handwheel.
- => with handwheel and handle.
- => with handwheel and ladder bracket.

Conforms to EN 341:2011 and meets ANSI and OSHA requirements

## MILLER SAFESCAPE® ELITE CASE





Exceptional storage solution for the Miller SafEscape ELITE.

## **FEATURES & BENEFITS**

#### Benefits:

- Ten years safekeeping without inspection -
- Rescue equipment can be safely stored for up to ten years without the need for costly inspection. Components must be inspected every ten years allowing a lower cost and inspection down time.
- Vibration tested and easy to inspect.
- The case and its contents have been tested according to EN60068.
- · Humidity check using a hygrometer, which is visible externally.
- Robust and simple.
- The rigid-foam insert has been specially designed to protect the rescue set against vibration.
- · Case is made out of unbreakable polypropylene, and its Ingress Protection (IP) is IP67, making it completely waterproof and dust-tight.

#### Features:

- Temperature range: -40°C to 99°C.
- Material:
- Body: Polypropylene
- Latch: ABS
- Lid O-Ring: Polymer
- Foam: Plastozote LD29
- Purge Vent: 3 Micro Hydro-phobic Non-Woven PET
- Dimensions: 80,2 x 52 x 31,6 cm.

## References on demand, depending on the rope length.

Please contact your customer service for more information

- => without handwheel.
- => with handwheel.
- => with handwheel and handle.
- => with handwheel and ladder bracket.

Conforms to EN 341:2011 and meets ANSI and OSHA requirements Various case sizes with a different selection of content are also available on demand







## **Rescue & Evacuation**

**Training** is an essential part of any rescue and evacuation operation and Miller offers a complete set of rescue training courses to suit all areas of industry and the emergency services. Miller offers set or tailor-made courses, including theory and practice. Training sessions can be provided worldwide in our training centers or on site. Miller provides a complete solution for rescue and evacuation.

## **RESCUE CARRYING BAG**

#### **FEATURES & BENEFITS**



#### Benefit:

• Carry the Miller SafEscape elite, rope and accessories.

## Features:

Waterproof.

| Ref.      | Size | Ø    | Height |
|-----------|------|------|--------|
| 10 101 91 | М    | 23cm | 59cm   |
| 10 101 90 | L    | 26cm | 69cm   |
| 10 293 40 | XL   | 48cm | 69cm   |

## **QUADPOD\***



#### **FEATURES & BENEFITS**

Mobile anchorage point.

## Benefits: Ideal for cliff top rescue and confined spaces

- Stability even on rough terrain.
- Durability even in harsh environments thanks to its design.



Conforms to EN 795 Class B

\* Recommended to use in conjunction with Self tailing winch.

## MILLER SAFESCAPE® ELITE EVACUATION KIT



Descent kit for emergency

#### **FEATURES & BENEFITS**

#### Benefit:

All in one bag

#### Features:

- Includes a Miller SafEscape ELITE with wheel and handle, fitted with 20 m rope
- Anchorage sling
- Waterproof bag

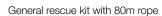
| Ref.      | Length |
|-----------|--------|
| 10 293 50 | 20 m   |



 $\triangle$   $\triangle$   $\triangle$ 



## MILLER SAFESCAPE® ELITE



## **FEATURES & BENEFITS**

## Benefit:

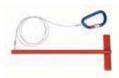
• All in one rescue kit.

## Features:

- 1 Miller SafEscape ELITE with handwheel and Ladderadapter, fitted with 80m rope.
- 1 Red rescue carrying bag.
- 2 Slings of 1,2 m.
- 1 Rope grab.
- 4 Karabiners.
- 1 Pulley.
- 1 Edge protection.
- 1 T-Bar.

| Ref.      | Length |
|-----------|--------|
| 10 288 11 | 80m    |







## Features: Multi-positioning

- Removable and adjustable legs, each extend from 1.35m to 2.30m.
- Pivoting rubber studded feet.
- High grade corrosion resistant aluminium.
- Safe working load: 500kg.
- Weight 12.5kg.
- Supplied with carrying bag.



# MILLER by Honeywell

## **Rescue & Evacuation**



## **SELF TAILING WINCH**





#### **FEATURES & BENEFITS**

#### **Benefits:**

- Highly efficient, two speed rope winch for use in conjunction with Quadpod.
- Self-tailing winch keeps both hands free to turn the handle.

#### Features:

- Power Rib system grips the rope for greater safety.
- At 500kg the grip will start to creep preventing overload.
- Designed for use with 11mm kernmantel rope.
- Weight: 5.45kg



# SINGLE SWIVEL CHEEK PULLEY





**FEATURES & BENEFITS** 

#### Benefits:

- Highly efficient single or dual-attachment swing sided pulley for pulley systems and hauling.
- Oil-lite bearings with smooth free-running performance under heavy loads.

#### Features:

- Aluminium construction.
- Suitable for ropes up to 12.7mm diameter.
- Tensile strength 3kg.
- Lightweight alloy: 0.12kg.

| Ref.      | Description       | Colour    |
|-----------|-------------------|-----------|
| 10 070 38 | Single attachment | Dark blue |
| 10 102 24 | Dual attachment   | Purple    |

# TWIN ALLOY RESCUE PULLEY





#### **FEATURES & BENEFITS**

## Benefits: High efficiency dual attachment pulley

- Double swivel.
- Oil-lite bearings with free-running performance under heavy loads.

#### Features:

- Dual attachment double swivel cheek pulley for pulley systems and hauling.
- Suitable for ropes up to 12.7mm.
- Tensile strength 3kg.
- · Lightweight alloy: 0.28kg.

| Ref.      | Description     |
|-----------|-----------------|
| 10 070 40 | Dual attachment |

# TELESCOPIC REACH POLE

## **FEATURES & BENEFITS**

#### Benefit:

• Used to remotely attach the rescue line to the fallen climbers harness.

#### Features:

- Karabiner is held in an opened position.
- Fiberglass telescoping pole which collapses to 0.8m.
- Length 3.45m.

Ref. 10 178 24

## RESCUE ROPE GRAB





## **FEATURES & BENEFITS**

#### Benefit:

• Attaches to the 'live' rope end and connects to lanyards or ropes to lift the fallen worker.

#### Feature:

• Suitable for 10/12mm ropes.

Ref. 10 288 07

## **EDGE PROTECTION**



## **FEATURES & BENEFITS**

#### Benefit

• Prevents the rope being cut against a sharp edge when lifting or lowering a person.

#### Feature:

Stainless steel.

Ref. 10 288 08





## **Rescue & Evacuation**

## **T-BAR**

#### **FEATURES & BENEFITS**

Used specifically to raise the rope away from the edge.



## FEATURES & BENEFITS

RESCUE TRIANGLE

## Benefit:

 Rescue triangle is fully adjustable for adults and children

#### Features:

- Compact and lightweight.
- Suitable for short-duration rescue and evacuation operations of an uninjured casualty.
- Designed to hold the casualty in a sitting position for comfort.
- Weight: 1.164kg

Ref. 10 048 76

Conforms to EN 1498B



## **EMERGENCY RESCUE SLING**



## **FEATURES & BENEFITS**

#### Benefits:

- Used by many leading rescue services around the world.
- · Enhances comfort for the casualty.

Ref. 10 070 63

Conforms to EN1498

## Features: Multi-positioning

- Comfortable and easy-to-use rescue sling is based on a helicopter sling.
- Chest strap can be undone and fitted around the casualty while remaining attached to rescue system.
- Adjustable leg straps allow any angle of casualty lift.
- 9mm cell foam padding on the chest strap.
- 2 additional attachment rings regulate the size for smaller casualties.
- Weight: 1.9kg



## **EVAC BODY SPLINT**



#### **FEATURES & BENEFITS**

## Benefits: Lightweight body splint ideal for confined space evacuation

- Once wrapped around a casualty, it provides a rigid splint.
- Can be used vertically and horizontally.

- Polypropylene stretcher bed.
- Fitted with foot supports.
- Can be stored in a compact bag and is easy to transport.
- Padded shoulder straps provide extra support and protection for the casualty.









# Confined Space







#### **FEATURES & BENEFITS**

## Benefit: Easily installed by one person

#### Features: Self-locking and adjustable

- Aluminium tripod.
- Fully adjustable legs lock securely in place thanks to the automatic pins.
- Two anchorage points.
- Supplied with one pulley.
- Weight: 15kg.
- Dimensions: Fully extended: height: 2.1m/leg span: 1.5m.
- Height: 2.1m
- Fully retracted dimension: height: 1.4m width: 0.4m.
- Breaking strength: > 10 KN.
- Maximum safe working load: 136kg.



Conforms to EN 795 (b)





## MN20 MANHANDLER® WORK WINCH



## **FEATURES & BENEFITS**

## Benefits:

- Compact and robust.
- Both a rescue and material winch.
- Manhandler® is easy to operate.

## Features:

- Brake holding friction disk.
- Housing in steel, yellow chromate plating.
- Mechanical efficiency 5:1.
- Overspeed braking system and load indicator.
- Integrated bracket for tripod.
- Swivel snap hook.
- Maximum charge: 150kg.

| Ref.      | Length | Description                               |
|-----------|--------|---|
| 10 050 42 | 20m    | Lifeline material: galvanised steel cable |
| 10 163 20 | 30m    | Lifeline material: galvanised steel cable |
| 10 050 44 | 20m    | Lifeline material: stainless steel cable  |

Conforms to EN 1496







## **Confined Space**

## MIGHTEVAC® RESCUE/ RETRIEVAL HOIST

Combines the superior performance and reliability for emergency evacuation 15m to 40m - Cable self-retracting lifeline with emergency retrieval winch

#### **FEATURES & BENEFITS**

#### Benefits: Heavy duty performance

- Easy-to-use.
- Used in conjunction with the Miller Tripod and dedicated brackets to form the core of a stable and secure confined entry/rescue system.

#### Features:

- 4.8mm galvanised or stainless steel cable.
- Quick-activating retrieval winch mechanism.
- Pressed steel housing and compact design.
- Rescue winch (up/down), gear ratio 5:1.
- Corrosion-resistant stainless steel/ aluminum components.
- · Convenient, heavy-duty carrying handle.
- Integrated fall indicator.





| Ref.      | Length    | Description                         |
|-----------|-----------|-------------------------------------|
| 10 051 49 | 15m       | Lifeline material: Galvanised steel |
| 10 051 60 | 30m       | Lifeline material: Galvanised steel |
| 10 051 61 | 40m       | Lifeline material: Galvanised steel |
| 10 143 90 | 15m       | Lifeline material: Stainless steel  |
| 10 143 70 | 30m       | Lifeline material: Stainless steel  |
| 10 053 30 | 15m       | Brackets for MightEvac®             |
| 10 053 31 | 30m & 40m | Brackets for MightEvac®             |

Conforms to EN 360

## **MILLER PULLEY\***







## **FEATURES & BENEFITS**

Benefit: Flat and swing sided with large diameter roller that promotes excellent efficiency

#### Feature:

Stainless steel pulley.



Ref. 10 114 71

\*included with MN10 Tripod

## **POTEX**







Portable pivoting davit column

## **FEATURES & BENEFITS**

## Benefits: Easy access to confined spaces

• Mounting plates: Portable davit arm is available with a wide selection of base mountings - to suit temporary/semi-permanent mobile working environments.

## Material: Pivoting uni-hoist system

- Integrated rescue winch 30m.
- Adjustable legs to fit most confined space entry.

Ref. 10 029 20

Conforms to EN 795(b)









Miller® makes it easy! Miller Kits are produced specifically to provide industries with an immediate selection of fall protection equipment to suit their requirements. All kits are conveniently packed in backpacks, storage boxes or carrying cases.

## **ROOFING KIT**









#### **FEATURES & BENEFITS**

## Benefits: Useful on sloping roofs where retractable lifelines may react too slowly

• Durable, corrosion-resistant.

## Features: All your fall protection equipment available in a ready-to-go kit

- 2 point DuraFlex® MA08 harness with rear and front anchorage D-rings.
- 12mm rope lifeline, length 15m.
- Automatic rope grab, 12mm, with 0.3m lanyard and hook.
- Includes free plastic storage box.

Ref 10 029 09

## **LOW LEVEL KIT**









## **FEATURES & BENEFITS**

## Benefit: Quick activating braking system stops a fall within centimetres

#### Features:

- 1 point DuraFlex® MA02 harness, rear anchorage.
- 2.5m Self retractable webbing lifeline MI20 with shock absorber.
- Webbing sling, length 0.6m.
- Includes free plastic carry case.

Ref 10 029 10

## MINILITE™ KIT







## **FEATURES & BENEFITS**

## Benefit: Quick activating braking system stops a fall within centimetres

#### Features:

- 3m self retracting webbing lifeline Minilite with scaffold hook.
- 1 point DuraFlex® MA02 harness.
- Includes free plastic carry case.

Ref 10 061 03

## CONSTRUCTION **BACK-PACK KIT**









## **BENEFITS & FEATURES**

## Benefits: Adapted lanyard for scaffolding

Two premium products in a back pack

## Features:

- 1 or 2 point DuraFlex® harness.
- 2m elasticated Manyard® with 65mm steel scaffold hook.
- Includes free back-pack.

| Ref.      | Harness | Description |
|-----------|---------|-------------|
| 10 068 83 | 1 point | MA02        |
| 10 078 42 | 2 point | MA04        |



## **SCORPION™ BACK-PACK KIT**







## **FEATURES & BENEFITS**

## Benefits: Ideal for low level work

· Quick activating braking system stops a fall within centimetres.

- 1 or 2 point DuraFlex® harness.
- Scorpion<sup>™</sup> self retracting webbing lifeline with swivel scaffold hook and snap hook.

| Ref.      | Harness | Description |
|-----------|---------|-------------|
| 10 086 94 | 1 point | MA02        |
| 10 086 95 | 2 point | MA04        |







## **TURBOLITE™ KIT**







## **FEATURES & BENEFITS**

## Benefits: Self retracting lifeline kit approved in fall factor 2

• Ideal for low space clearance.

#### Features:

- 1 point DuraFlex® MA02 harness.
- TurboLite self retracting webbing lifeline with steel twistlock + aluminium scaff hook.



## TITAN™ ROOFERS KIT







## **FEATURES & BENEFITS**

Benefit: Suitable for use on sloping roofs where retractable lifelines may react too slowly

## Features:

- TITAN™ 2 point harness with rear and front anchorage (front webbing loops).
- Automatic rope grab with 10m-anchorage line and 30cm attachment lanyard.

10 118 95





## TITAN™ FALL ARREST KIT







## **FEATURES & BENEFITS**

## Benefit: Cost effective kit for fall protection Features:

- TITAN™ 1 point harness with rear anchorage.
- 2m shock-absorbing lanyard with 2 screwgate karabiners.

Ref 10 118 96



## TITAN™ FALL RESTRAINT KIT









## Benefit: The ideal restraint solution

## Features:

- TITAN™ 1 point harness with rear anchorage.
- 2m restraint lanyard with 2 screwgate karabiners.

Ref. 10 118 97







## TITAN™ CONSTRUCTION KIT



## **FEATURES & BENEFITS**

#### Benefits: Lightweight fall protection kit

 Quick activating braking system stops a fall within centimetres.

#### Features:

- $\bullet$  TITAN  $^{\text{TM}}$  1 point harness with rear anchorage.
- TITAN<sup>™</sup> Aviabloc 2.5m self retracting webbing lifeline with 2 screwgate karabiners.

Ref. 10 118 98





## TITAN™ WORK POSITIONING KIT



#### **FEATURES & BENEFITS**

#### Benefit: Allow hands free position

## Features:

- ullet 2 point TITAN $^{\rm TM}$  harness with work positioning belt, front and rear anchorage (front webbing loops).
- $\bullet$  TITAN  $\!^{\text{TM}}$  Aviabloc 2.5m self retracting webbing lifeline with 2 screwgate karabiners.
- Adjustable work positioning lanyard with 2 screwgate karabiners.

Ref. 10 118 99



## CASUALTY PULLEY SYSTEM



## **FEATURES & BENEFITS**

## Benefits: Easy to install for quick and safe rescue

 Lightweight system enables the rescuer to clip the casualty to his own line and lift them to transfer either onto his system or onto a stretcher.

#### Features:

- Pulleys, ascender and karabiners fit into a strong carrying bag.
- Maximum length: 2m.
- Weight: 1.2kg.

Ref. 10 070 42



## **INDY SELF RESCUE KITS**



## **FEATURES & BENEFITS**

## Benefits: Suitable for use by one-person only

• Ready-to-use evacuation kit.

#### Features:

- INDY descender maximum descent speed 2m/s.
- 20m rope with karabiner.
- Anchorage sling.
- Convenient, waterproof storage bag.



Conforms to EN 341 and EN 12841/C







## **DURALITE KIT II & III**





## **FEATURES & BENEFITS**

## Benefit:

• The best of the best: 2 top products combined in 1 kit!

## Features:

- Duralite fall arrest block with Dyneema webbing
- Rite on comfortable vest style full body harness
- FP81 karabiner
- Packed in black/ yellow backpack





Duralite II



Duralite III





# ACCESSORIES

## TOOL BANDIT™



## **BENEFITS & FEATURES**

## Benefits: Prevent tools from dropping that can cause serious injuries on the worksite

- Can be fixed to the worker's belt or wrist.
- Designed to secure the tool whilst still allowing freedom of movement.

#### Features:

- Lanyard with karabiner and wrist fixing system.
- Maximum load: 2.5kg.

| Ref.                  | Description   |  |
|-----------------------|---|--|
| 11 002 10             | Display box with 12 Bandit™<br>Lanyard Tool holders |  |
| 10 145 91<br>one each | Tool Bandit™  |  |
| 10 124 91             | Bulk bag of 36 Wrist Bandit™<br>tool holders        |  |

## MILLER RELIEF™ STEP



#### **BENEFITS & FEATURES**

## Benefits: Alleviate the effects of suspension trauma

- $\bullet$  The Relief  $\!\!^{\mathbb{M}}$  Step can be attached to any harness brand.
- Easily deployed for a short term solution to the worker's safety and comfort.

#### Feature:

· Easy to deploy webbing.

| Ref.                  | Description             |
|-----------------------|-------------------------|
| 11 002 11             | Display box of 12 pairs |
| 10 315 70<br>one pair | Miller Relief™ Step     |

## **COWSTAIL SLING**



#### **BENEFITS & FEATURES**

## Benefits: Reliable connecting device with reinforced loops at end

• Lightweight.

#### Features: Dyneema 15mm

- Used to attach a variety of ancillary devices.
- Sling with reinforced loops at each end.
- Suitable for connecting different devices within an access or rescue system.

| Ref.      | Length |
|-----------|--------|
| 10 070 59 | 30cm   |
| 10 070 58 | 60cm   |

Conforms to EN 354 and EN 566

## **EDGE ROLLER**



## **BENEFITS & FEATURES**

## Benefit: Designed to protect the rope when used on abrasive edges

## Features:

- Highly durable stainless steel shaft and brass bearings.
- 50mm wide roller allows the simultaneous use of 3 ropes.

| Ref.      |  |
|-----------|--|
| 10 070 43 |  |

## **CLIMBERS HELMET**

## **BENEFITS & FEATURES**

## Benefit: Protects from impacts from above and side

## Features:

- Polypropylene climbers helmet with fully adjustable cotton lining and good air circulation reduces the build up of moisture.
- Comfortable skull webbing and chin strap.
- Fitted with attachment point for head torch.

| Ref.      | Colour | Weight |
|-----------|--------|--------|
| 10 309 40 | White  | 400g   |
| 10 070 48 | Red    | 410g   |

Conforms to EN 397 and EN 50365









## **Accessories**

## **ROPE PROTECTOR**

## FEATURES & BENEFITS

Benefit: Designed to protect the rope against abrasion and cutting eg. on buildings or construction site

#### Features:

- PVC reinforced rope protector.
- Easy-to-fit with velcro seam.

Ref. 10 102 14

## **PLASTIC BOX**



#### **FEATURES & BENEFITS**

**FEATURES: Plastic storage box** 

Dimensions: 800x400x300mm.

Ref. 10 044 71

# INDUSTRIAL CLIMBERS SEAT



#### **FEATURES & BENEFITS**

Benefit: Seat offers a comfortable supported position for the operator

Use in conjunction with a suitable safety harness

## Features:

- Padded seat with waterproof, abrasionresistant PVC coated nylon covering.
- Supplied with two connectors.
- Adjustable straps for perfect fit.
- Complete with convenient attachment points for accessories.

Ref. 10 070 56

## KIT BLOCK



## **FEATURES & BENEFITS**

## Benefits: Secures foot of a ladder to prevent slipping

- Avoid all risks of fall over or slipping.
- Fix safely the ladder.

#### Features:

• Kit including 2 fixing blocks and a 8m rope.

Ref. 10 029 97

## **SPORT BAG**



## **BENEFITS & FEATURES**

#### Features:

- Polyester with central zip fastener.
- 2 large carrying handles and shoulder strap.
- Dimensions: 590x270x270mm.
- Weight: 0.740kg.

Ref. 10 028 65

# PERSONAL PROTECTIVE EQUIPMENT BAG



## **BENEFITS & FEATURES**

## Features:

- 3 outside pockets.
- 2 large carrying handles and 1 shoulder strap.
- Dimensions: 500 x 330 x 250mm.
- Weight: 0.938kg.

Ref. 10 044 54

## **BACK PACK**



## **BENEFITS & FEATURES**

## **Benefit: Large capacity**

- Heavy duty blue PVC Back Pack.
- Shoulder straps.
- Quick connect buckles.

| Ref.      | Capacity | Height |
|-----------|----------|--------|
| 10 044 43 | 301      | 410mm  |
| 10 044 44 | 601      | 650mm  |

## Miller Revolution™ accessories



The PivotLink™ Connection provides an attachment point for a multitude of accessories and individual tool pouches with an innovative design that accommodates: tools, mobile phones, water bottles and more, accessories are easily attached and detached – distributing weight across the hips and shoulders for a more comfortable fit and greater mobility, universal attachment clips fit on your existing accessories or tool rig and easily attach/detach

## **OPEN BOLT & BULL PIN BAG**

## **FEATURES & BENEFITS**

- 1. Accessories have a female clip that attaches and locks over the male connection point.
- 2. Once attached, the accessory pivots to maintain a level
- 3. Easily remove and /or change accessories for convenience by simply lifting from connection point.

| Ref.      | Size   |
|-----------|--------|
| 10 142 73 | LARGE  |
| 10 142 74 | MEDIUM |





## **CELL PHONE HOLDER + CONNECTOR**

| Ref.      | Size    |
|-----------|---------|
| 10 142 70 | MINI    |
| 10 142 71 | REGULAR |



## **SNAP TOGETHER CLIP** FOR MINIPHONE HOLDER

| Ref.      | Description                                |
|-----------|--|
| 10 156 15 | SNAP TOGETHER CLIP<br>FOR MINIPHONE HOLDER |



## **WATER BOTTLE HOLDER\***



Ref. 10 142 72

\*Bottle not included





## Miller Revolution™ accessories

# SELF ADHESIVE LABELS X 10



| Ref.      | Colour |
|-----------|--------|
| 10 142 78 | Blue   |
| 10 142 79 | Yellow |
| 10 142 80 | Red    |
| 10 142 81 | Green  |

## PADDED HAMMER LOOP



| Ref.      |
|-----------|
| 10 160 80 |

## LARGE TOOL BAG WITH HAMMER LOOPS



Ref.

## **SHOULDER / LEG PADS**



Ref. 10 142 76

# REVO 2 POCKET NAIL AND TOOL POUCH



Ref. 10 142 75

# ZIPPED CYLINDRICAL UTILITY POUCH







# MILLER SERVICES

# MILLER TECHNICAL SERVICE/ TECHNISERV

Miller Technical Service provides personal one-on-one assistance for your safety at height questions. Staffed with experienced professionals, they are ready to immediately respond to your telephone call with the answers you need to safely operate your business.

# OUR TECHNICAL EXPERTISE IS AT YOUR SERVICE FOR ANY QUESTIONS REGARDING:

- Recommendations on products linked to a specific application or sector
- Any technical request on our Miller product specification
- After sales management inspection & return
- Specific product requests
- Product certifications & standards
- Requests on instruction sheets technical sheets

## **TECHNISERV Northern Europe**

Tel.: +49 (0) 23 01-96 29 219 and/or +49 (0) 23 01-96 29 220 Mail: techniservnorth.hsp@honeywell.com

## **TECHNISERV Southern Europe**

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# MILLER FALL PROTECTION TRAINING

#### **LEGISLATION REQUIREMENT**

Training is an essential part of any safety program. The employer is responsible for ensuring that any person working at height is fully informed regarding the correct use of PPE and systems.

## FUNDAMENTAL FALL PREVENTION/ PROTECTION TRAINING

The legislation states that a fall arrest system must be used when working at a height where a fall hazard exists. This system consists of:

- Anchorage point/anchorage connector
- Body wear full body harness
- Intermediate attachment.

## **TOTAL TRAINING SOLUTIONS**

Miller Training Programs are considered to be a central part of their global fall protection offer, and provide awareness, knowledge and the skills necessary to ensure safety on the worksite to suit all areas of industry and the emergency services. Taught by field-experienced, professional instructors, the training sessions include live demonstrations and hands-on training, while addressing site-specific variables and performance requirements of fall prevention and protection.

In addition, Miller Training offers a comprehensive list of height safety courses conducted at a customer's facility or at the Miller Innovative Technology & Training Centres:

- Construction: Steel Erectors, Scaffolding and Roofing
- Telecommunications
- Electricity
- Wind Energy: simulator
- Oil & Gas
- Rope Access
- Confined Space
- Cleaning
- Ski Lifts
- Maintenance
- Rescue and Evacuation

# MILLER SERVICE CENTRES:

- inspection
- repair
- maintenance

Miller® offers to the users of its products a service to inspect, repair and maintain devices locally, quickly.

Miller service points are trained then certified by technicians, store necessary spare parts for a repair and maintenance of Miller equipment according to maintenance guide.

Contact your closest centre for an answer adapted to your request.



For further information on our range of Industrial Fall Protection training courses, please contact your local Honeywell Sales office or Fall Protection Representative to customise your personalised training courses.





## SÖLL FUSION® ROOF ANCHOR POST

Söll Fusion® single anchorage point absorbs energy and keeps forces close to the roof surface. The single anchorage point is tested for connecting up to 2 people while maintaining loads on the structure below 10kN.

**360° protection :** In the event of a fall, the Söll Fusion® Roof Anchor Post bends in the direction of the force, the built-in, energy-absorbing component activates and the base remains securely attached to the roof surface.

Söll Fusion® Roof Anchor Post conforms to EN795 Class A.



## SÖLL SHOCKFUSION® HORIZONTAL LIFELINE SYSTEM

Designed for light weight industrial and commercial roof applications.



The Söll ShockFusion® horizontal lifeline (HLL) system reduces fall distance (minimised line deflection) while effectively managing system forces to maintain a safe connection to a variety of roof structures. The unique surface-mounted design eliminates the need to penetrate the roof structure, making installation quick and easy while reducing labour costs.

- Unique engineered Söll ShockFusion® design :
- Successfully tested for spans up to 20 m
- Designed for up to 6 users (with max. 4 users within the same span)
- Guarantees loads on the roofing structure < 10 kN
- Increased mobility and safety for working at height :
- End and corner posts effectively manage system forces without tipping over through a built-in energy absorbing component
- Resulting in minimized line deflection (reduced possible fall distance)
- Allows installation at a nearer proximity to the roof edge
- Easier rescue provided in case of a fall
- Durable design for long-lasting, reliable installation
- Time-efficient and cost-effective installation
- Maintains a safe connection to a variety of roof structures: membrane, standing seam, trapezoidal metal sheeting, concrete

Söll ShockFusion® HLL system conforms to EN795 Class C.

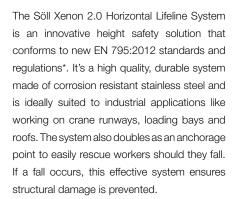


## SÖLL XENON® 2.0 HORIZONTAL LIFELINE SYSTEM

Designed for industrial applications (crane runways, loading bays...) and roofing.

#### **FEATURES & BENEFITS**

- Conforms to EN 795:2012 standard
- Guarantees structural integrity and protects up to seven workers
- The unique multi-functional shock absorber prevents damage to a variety of structures
- The standard and overhead shuttle have excellent sliding performance

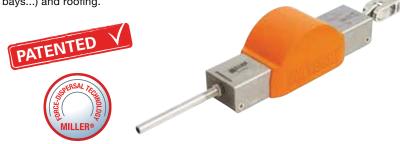


The Lifeline System incorporates a unique, state-of-the-art shock absorber, which uses patented Miller 'Force-dispersal Technology' to provide fall protection for up to seven workers across a maximum span of 20m (1X19 cable, 8mm wide), depending on the line configuration.

The new Söll Xenon energy absorber functions as a four-in-one device: a tension indicator, a cable tensioner, an energy absorber and a fall indicator. Only one energy absorber is necessary for all installations, irrespective of whether it's an overhead or standard installation (on posts or against walls).



Standard shuttle



A new Söll Xenon overhead shuttle completes the system allowing for heavy usage with self retractable lifelines up to 20kg.

## Compliance and testing

The Söll Xenon 2.0 Horizontal Lifeline System complies with EN 795:2012, the latest European standard for anchor devices\*.

- To demonstrate that the system would prevent structural damage following a fall as well as provide anchorage to rescue workers, it successfully passed a dynamic strength and integrity test with a mass of 100kg, plus a further 200kg for three minutes.
- To prove how effective the Miller 'Force-dispersal Technology' would perform if up to seven workers fell consecutively the system was put through a 'multiple fall' test. A test mass of 200kg (representing two workers) was initially dropped followed by five more masses weighing 100kg each (representing five workers). To test for structural integrity, an extra 650kg was added to the load for three minutes.



Overhead shuttle





\*System also complies with the requirements of OSHA, ANSI and AS/NZS









Designed for rigid roof applications.

#### **FEATURES & BENEFITS**

- Exceptional shock absorber guarantees structural integrity for roofing applications following EN 795:2012 standard
- · An easy to install system with few components that protects up to three workers
- System doubles as anchorage to rescue fallen workers

The Söll SafeLine 2.0 Horizontal Lifeline System is an easy to install anchorage device, ideal for roofing applications. The system consists of a limited number of components that need no specific tooling.

The Söll SafeLine 2.0 Horizontal Lifeline System conforms to new EN 795:2012 standards and regulations. It's a high quality, durable system made of corrosion resistant stainless steel and is ideally suited to roof installations. The system also doubles as an anchorage point to easily rescue workers should they fall. If a fall occurs, this effective system prevents structural damage.

The Lifeline System incorporates a unique, state-of-the-art shock absorber, which uses Miller patented 'Force-dispersal Technology' to provide fall protection for up to three workers across a maximum span of 15m, depending on the characteristics of the lifeline.

## Easy to install shock absorber with exceptional performance

The Söll SafeLine absorber can be easily and rapidly fixed with the axles and pins provided. The black shrink tube around the shock absorber is UV-resistant.

The shock absorber has been designed to disperse energy during a fall to protect both workers and the roof structure. Its patented 'Force-dispersal Technology' ensures energy is distributed evenly when the shock absorber is deployed.



## Easy to order kit with installation essentials

Söll Safeline is proposed as a kit containing the new shock absorber, a tensioner with integrated tension indicator, cable end clamps and an identity plate. Additionally to these essential components, only intermediate parts and the correct cable length need to be ordered.





Söll SafeLine can only be installed by qualified installers who have undergone appropriate training.



# 'n

## **Permanent Fall Arrest Systems**

# SÖLL GLIDELOC® SAFE CLIMBING SYSTEM

Söll GlideLoc® Safe Climbing System, permanently installed on buildings, towers, masts, etc... comprises a guided type fall arrester, vertical and horizontal guide rails or fall protection ladders, and a wide range of mounting brackets and accessories that adapt the system to most structures.

#### **Enhanced Safety**

In contrast to temporary rope systems, Söll guide rails withstand constant wear and tear and allow a combination of vertical and horizontal access without having to disconnect.

#### Versatility

Available in both straight and curved form in a variety of materials to suit the work environment. Guide rails can be retrofitted to existing ladders.

## **User Comfort and Ergonomics**

The fall arrester glides smoothly along the rail without any manual guidance, reducing user fatigue. This is the only system that allows the user to lean forward or backwards.

#### **Economic**

Designed to withstand the toughest environmental conditions, Söll fixed systems offer a long-term economical investment with minimal maintenance.

# Söll GlideLoc® systems are available as ladders as well as guide rails.

Fall protection ladders have an integrated guide rail for the guidedtype fall arrester in the centre. They are available in aluminium, galvanized steel and stainless steel, either with or without side stringers:

## **Anodized Aluminium:**

For high corrosion and distortion resistance, good appearance and ergonomic support

#### Hot dipped galvanised steel:

The cost effective solution for general applications.

## Stainless steel:

Suitable for harsh environments such as chemical plants, food industry, off-shore and industrial chimneys and shafts.



#### Comfort

The triple action karabiner is self locking and made from lightweight aluminium. It ensures extremely short arrest distances

and low arrest forces.

Ref. 22697



#### UNIVERSAL II

can be inserted into or detached from the rail at any location.

The body and the opening mechanism of the patented fall arrester are made from stainless steel.

Ref. 23531



## Comfort<sup>2</sup>

Made entirely of **stainless steel.**The functional design of

COMFORT<sup>2</sup> is identical to the aluminium shuttle and offers additional advantages since it is designed for severest stress, is extremely durable

Ref. 23331



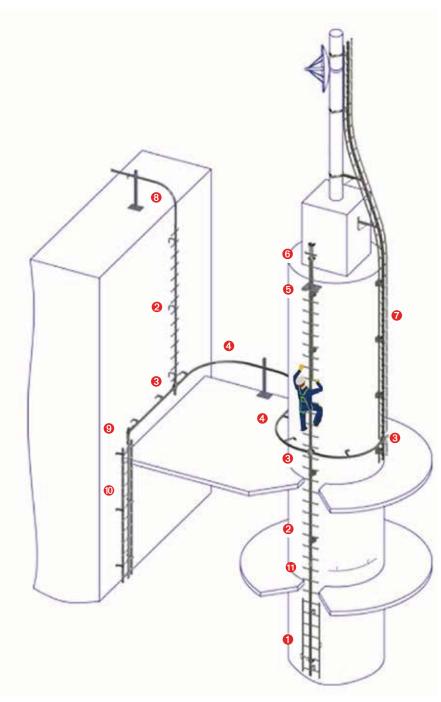
## **COMFORT UK**

This triple action karabiner is self-locking and has strap webbing for rescue actions which require the cutting free of the injured person.

Ref. 23109







## Söll PivotLoc

The foldable ladder system prevents unauthorised persons from climbing the ascent route and is visually much less obtrusive than a ladder. (see page 394).

#### Y-Spar

Cost-effective alternative. The low surface area keeps wind loads applied to the sub-structure to a minimum.

## **8** Turntable

Allows safe continuous transfer from ladders to horizontal rail and vice versa without disconnecting.

## 4 Horizontal guide rail

Available both straight and curved, which allows safe access along narrow platforms.

## Folding footrests

Must be provided as rest platforms at regular distances in case of high ascent routes for added safety.

## 6 Rotary exit section

Rotary exit section Climbers can safely access and egress the top of the guide rail while standing on the upper platform.



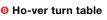
#### Twin ladder

The operator can glide his hands along the side stringers when ascending without having to hold onto the rungs. Ideal for dirty surroundings. Offers high distortion resistance.



## Twisted change-over rail

Allows a climber to move safely onto a roof or a platform away from the edge of the roof before disconnecting from the system.



Simple means of changing direction from the end of a vertical rail to a horizontal rail and vice versa.



## Vertical guide rail

Can be assembled on existing ladders, step irons etc. An ascent route protected in this way offers the same protection as Söll safe climbing systems.



A climber can detach the fall arrester from the rail after ascending and insert it into the rail before descending.







## SÖLL PIVOTLOC LADDER

#### The foldable ladder system

Söll PivotLoc is a foldable ladder system with incorporated GlideLoc fall protection rail. In the closed position, the rungs pivot together behind the central guide rail.

## **Access Prevention**

The Söll PivotLoc aluminium ladder system is a cost effective, innovative alternative to the cover plate. Through its unique and award winning design the Söll PivotLoc can be closed when not in use thus preventing unauthorised access. The Söll PivotLoc can be locked while working in the open state, so as to prevent an operator from being trapped accidentally.

#### **Discreet**

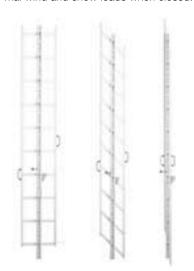
Once the side rails have been folded together, the ladder is very discreet (105 mm wide in the closed position) thus meeting architectural and planning requirements for an "invisible" height access system.

## Versatile

Söll PivotLoc can be used in conjunction with all other Söll ladder systems. Side members are light and easy to move since their weight is counterbalanced. The side rails offer additional support to the user when climbing and descending.

## Robust

Manufactured from saline-resistant anodised aluminium. The system attracts minimal wind and snow loads when closed.





# SÖLL VI-GO - VERTICAL STEEL CABLE FALL PROTECTION SYSTEM

Söll Vi-Go is a fall protection system that can be retrofitted onto existing climbing devices such as ladders or rungs used in wind turbine, power supply, telecommunication or other industry.

It is basically made up of a steel rope or

cable (three different types), fastening elements and a guidedtype fall arrester.

## Safety for all users

Each fall arrester is equipped with a shock absorbing element made of stainless steel which is unique to Miller by Honeywell.

| Ref.      | Description                                       |
|-----------|---|
| 10 172 71 | Söll Vi-Go Shuttle                                |
| 10 176 81 | Söll Vi-Go Shuttle (with rotary swivel karabiner) |









# SÖLL MULTIRAIL - HORIZONTAL RAIL-BASED ANCHORAGE SYSTEM

# Horizontal anchorage systems: Where is the difference?

The cable lifeline deflection is limited

#### Can also be used as a handrail

Compared to cable systems and anchorage points, horizontal guide rails offer the advantage that they also can be installed as handrails.

## Energy distribution via multiple intermediate brackets

In case of a fall, the forces are absorbed by several intermediate brackets and not just by both of the end-fixings, as is the case with cable systems, or by a single point, as it is the case with anchorage points. The rail can absorb retention forces of up to 100 kg (220 lbs.) without permanent deformation. The rail is not fixed in the intermediate brackets, enabling thermal expansions to be accomodated.

## **Greater fixing spans**

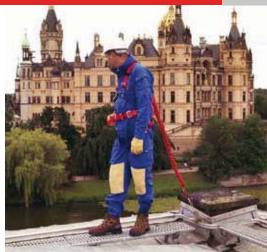
Söll MultiRail offers the advantage of greater fixing spans up to 6 m (13 ft.) and can be used by more people at the same time (up to 6).

The openable glider can be attached to the rail at any point. It can be opened and closed by turning the knurled-knob.

#### Innovative and versatile

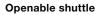
The Söll MultiRail horizontal anchorage device is often used in the following sectors: Store-fronts, Flat roofs or steep roofs, Working platforms on masts and buildings, Hangars, Shipyards, Cranes, Industrial plants etc.

With the Söll MultiRail system, vertical sections of up to 1 m (40 in.) are allowed.









Can be detached and re-attached at any point along the rail

Ref. 17792



## Wheeled shuttle

For overhead applications, articularly effective where heavy retractable fall arresters are used.

Ref. 24168



## Closed shuttle

Robust, easy to use and low cost, operates with a gliding action.

Ref. 17407



